



LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT

Former Hitch and Haul
528 State Street
New Albany, Indiana

Prepared for:

Mr. James Hutchens
Approved Auto America
2105 Dixie Hwy.
Louisville, Kentucky

Mr. John Rosenbarger
Redevelopment Commission
City County Building
New Albany, Indiana

Prepared by:

Specialty Earth Sciences, LLC
4350 Security Parkway
New Albany, IN 47150

February 28, 2014

SE Sciences Project Number 4350-12-152



February 28, 2014

Mr. James Hutchens
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Louisville, KY 40210
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Re: **Report of Limited Phase II Environmental Site Assessment
Former Hitch and Haul
528 State Street, New Albany, Indiana 47150
SE SCIENCES PROJ. NO. 4350-12-152**

Dear Mr. Hutchens:

Specialty Earth Sciences, LLC (SE Sciences) is pleased to present this *Limited Phase II Environmental Site Assessment (ESA) Report* for the above-referenced property ("the Site"). The attached report summarizes activities carried out by SE Sciences to determine the presence or absence of chemical impacts to soil and/or groundwater as a result of historic Site activities. Funding was approved and provided by the City of New Albany Redevelopment Commission, through the EPA Region 5 Brownfield Assessment Grant for Petroleum Substances, Cooperative Agreement #00E00886.

The following sections provide our technical understanding of the project, describe the work completed at the Site, and summarize on-site soil and groundwater conditions based on our findings.

We appreciate the opportunity to provide consulting services to Approved Auto America and look forward to future endeavors. Please contact us at 812.945.0733 if you have any questions or comments regarding this report.

Sincerely,
SPECIALTY EARTH SCIENCES, LLC

Jason A. Swearingen, CHMM
Principal Environmental Scientist

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1.0 BACKGROUND

The Site is located in the NE ¼ of Section 28, New Albany Township, Floyd County at 528 State Street in New Albany, Indiana, and consists of three (3) commercially zoned parcels, Parcels No. 22-05-00-200-067.000-008, 22-05-00-200-069.000-008 and 22-05-00-200-070.000-008 totaling approximately 0.46 acres, more or less.

The property is currently developed with one (1) commercial building. The building was constructed in 1965 slab-on-grade and is approximately 3,312 square feet; with five (5) auto service bays and one (1) main office area. The Site has been improved with asphalt parking areas and associated landscaping.

The Site is located southeast of the intersection of State Street and East Oak Street. The property is surrounded by a vacant auto shop, Save-a-Lot Convenience Store, and State Street Auto Sales to the north; O’ Bryan Law Office and KSS Educational Supply Store to the east; Lorch & Naville law offices, Warehouse Bar and FedEx Print Shop to the south; and John-Kenyon Eye Institute and Kruger & Schwartz Bankruptcy Office to the west.

At the time this limited Phase II ESA was performed, the Site was vacant and unoccupied. Historically, the property has been used for the following:

- Commercial truck rental and auto repair parts sales and service, since early 1980’s.
- Gasoline retail station and auto service, since early 1930’s.
- Livery, Gray Brook Hotel, Barber, Grocery, Bakery and Offices, preceding 1886.

2.0 PREVIOUS SITE INVESTIGATIONS

SE Sciences completed a Phase I ESA for the subject property dated August 12, 2013. The report identified the following Recognized Environmental Conditions (RECs):

- A REC (as that term is defined in ASTM Standard Practice E1527-05) was discovered via historical use of the property shown in the Historical Map Review, Historical City Directory Review, and the EDR Radius Map stating that that Site was used as a gasoline service and retail station from early 1930's until the early 1980's.
- Historic records indicate that the Site contained at least two (2) gasoline Underground Storage Tanks (USTs) and two (2) hydraulic USTs. Closure sampling reports of the USTs could not be located. As such, it was reasonable to conclude that the contents of the USTs may have impacted the soil and/or groundwater at the Site.
- Five (5) hydraulic lift stations and four (4) floor drains were observed during the initial Site inspection. Proper abandonment documentation could not be located. As such, it was reasonable to conclude that these areas may have impacted the soil and/or groundwater at the Site.

The Phase I ESA recommended a limited Phase II investigation be performed at the Site to identify potential soil and/or groundwater impacts.

3.0 SITE INVESTIGATION ACTIVITIES

During December of 2013, SE Sciences undertook subsurface investigative activities at the Site to determine the presence or absence of chemical impacts as a result of historic on-site activities. Specifically, thirteen (13) soil borings (SB-1 through SB-13) were advanced to assess soils and groundwater at the locations identified in **Figure 2**. All thirteen (13) of the soil boring locations were finished as temporary piezometers for the subsequent collection of groundwater samples. Five (5) of the piezometers were left in place to assess local groundwater flow patterns. Following the investigation, each piezometer location was properly abandoned by an Indiana licensed driller using bentonite chips.

3.1 Soil Borings

Each of the soil boring locations were cleared for public utilities using 811 call-in service. Following utility clearance, a Geoprobe® 6600 direct push unit was used to advance borings SB-1 through SB-13 to a general depth of 20-ft. below grade. Based on Site conditions encountered, soil samples were generally collected from the 4 to 5-foot and 14 to 15-foot vertical intervals using a 2.25-inch diameter, 60-inch long, stainless steel dual-tube discrete sampler equipped with an inner-rod/ acetate liner assembly. Soil sampling methods consisted of pushing the outer barrel-sampler to the desired subsurface sample depth, then driving a smaller diameter inner-rod with acetate liner to the desired subsurface depth (within the barrel-sampler), retracting said inner-rods and liner to ground surface, and then collecting the discrete interval of soil within the dedicated acetate liner. Soil samples were separated into 2.0-foot intervals and visually evaluated. The lithology was classified by a SE Sciences professional engineer (P.E.) in accordance with the Unified Soil Classification System (USCS) and standard industry practices.

Soils encountered during boring advancement generally consisted of a top layer of sandy fill-material ranging from 2.0 to 5.0-ft below grade, approximately. Beneath the fill-material was a fairly consistent deposit of fine sands (SP); transitioning to a medium grain size from 10.0 to 20.0-ft below grade.

Groundwater was generally encountered at 15-feet below grade.

3.2 Field Screening

Upon soil collection and classification, one portion of each sample was immediately placed in a sealable plastic bag for total photoionization vapor (TPV) field screening. Following placement in the sample bag, the headspace was allowed to equilibrate for approximately ten (10) minutes. A Photovac 2020 Pro photoionization detector (PID) was then utilized to screen the concentration of total TPV being emitted from the respective soil sample portion into the headspace. Maximum instrument response was recorded for each soil sample, as illustrated on associated boring log descriptions attached to this report as **Appendix A**.

Note: The PID field instrument was equipped with a 10.6 electron-volt (eV) lamp, and was calibrated daily against a 100 part per million volume (ppmV) isobutylene reference gas standard. Calibration documentation is included on the soil and groundwater field sample forms.

3.3 Soil Sampling

One sample from each of the borings SB-1 through SB-13 that displayed the greatest potential for impacts (i.e., discoloration, odor, elevated headspace result, visual suspicion of impact), or the deepest portion of the boring if no TPV were detected, was collected for the following analyses.

- Volatile Organic Compounds (VOCs) - via U.S. EPA SW-846 method 8260/5035
- Polynuclear Aromatic Hydrocarbons (PAHs) - via U.S. EPA SW-846 method 8270
- Priority Pollutant Metal: Lead - via U.S. EPA SW-846 method 6010

Soil samples slated for VOC 8260 analysis were containerized using “trap and purge” procedures via dedicated disposal Terra-Core plastic soil samplers abiding by U.S. EPA method 5035 protocols. Sequence of events included the placement 5 grams of soil into one (1) vial containing a pre-measured quantity of laboratory supplied methanol, 5 grams of soil into (2) two vials containing pre-measured quantities of laboratory supplied distilled-water, and 5 grams of soil into (1) empty vial.

Soil samples slated for the remaining analyses were then collected from the soil tube and placed into laboratory supplied four-ounce glass containers with Teflon-lined lids.

All soil sample containers were placed in a large plastic sealable bag and then placed on ice within a cooler and submitted to Pace Analytical of Indianapolis, Indiana for third party laboratory analysis using chain-of-custody controls. Field sampling forms are provided in **Appendix B**.

Quality assurance samples, including field trip blanks, field duplicates, matrix spike (MS), and matrix spike duplicate (MSD) were collected in accordance with the EPA approved site-specific Sample and Analysis Plan (SAP) dated September 24, 2013. Specifically, field duplicates were obtained from soil sample HH-SB-GP-13 and MS/MSD samples were obtained with soil sample HH-SB-GP-05. A trip blank was placed in the sample cooler prior to mobilization.

3.4 Soil Analytical Results

Soil analytical results indicated the on-site presence of adsorbed metal and PAHs at concentrations exceeding associated Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) 2013 screening levels. More specifically, lead was identified in exceedance of the associated IDEM RCG Industrial

Direct Contact (I-DC) and Residential Migration to Groundwater (MTG) screening levels at boring location SB-07, sample identification HH-SB-GP-07.

PAH constituents 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were identified in exceedance of the associated IDEM RCG Residential MTG screening level within vadose soil samples obtained from boring locations SB-06 and SB-07, sample identifications HH-SB-GP-06 and HH-SB-GP-07 (adjacent to historical UST locations). Benzo(a)pyrene was identified in excess of IDEM RCG Residential Direct Contact (R-DC) screening level within the vadose soil sample obtained from boring location SB-07, sample identification HH-SB-GP-07.

VOCs were not detected in excess of IDEM RCG screening levels.

Soil analytical data is summarized in **Table 1A through 1C** and are depicted on **Figures 3 through 5**. Laboratory certificates of analysis and chains-of custody are included in **Appendix C**.

3.5 Groundwater Sampling

Following soil boring advancement, each soil boring location was completed as a temporary piezometer to allow for subsequent groundwater gauging and sampling activities. Each piezometer was constructed with ten-feet of screen and set at a general depth of 20-foot below grade. SE Sciences then allowed each piezometer a period of time to equilibrate, to initiate groundwater gauging and sampling activities. Groundwater elevations and depth to water were measured and recorded on field sample form sheets.

Groundwater samples were collected from each piezometer utilizing the micro-purge sampling method outlined in the IDEM Office of Land Quality (OLQ) Technical Memorandum dated January 8, 2003, the OLQ Technical Memorandum dated June 3, 1998, and the EPA Groundwater Issue dated April 1996. A peristaltic pump with variable speed controls and dedicated polyethylene tubing was used to purge and sample the wells at flow rates of 400 to 500 milliliters per minute (ml/min). During the micro-purging, a YSI® multi parameter water quality instrument, with flow-through cell, was used to measure temperature, conductivity, dissolved oxygen (DO), pH, and oxidation reduction potential (ORP). Purge parameters were recorded on the aforementioned field sample form sheets, which are attached as **Appendix B**.

Groundwater samples were collected upon the stabilization of indicator parameter values in accordance with the criteria stated in the IDEM OLQ memorandum. Non-dedicated sampling equipment, such as pumps, water quality meter, flow-through cell, and water level measuring equipment, were thoroughly decontaminated prior to use at each piezometer location. Upon completion of purge activities, a groundwater sample was collected in the appropriate laboratory-provided containers using precautions not to excessively agitate/aerate the fluid. Sample containers were provided by Pace and were cleaned in accordance with standard procedures. The containers were labeled, to reflect the specific parameter that the sample was to be analyzed for and the proper

preservatives were contained within. Lastly, all samples were collected in glass containers with Teflon lined caps. Upon collection, samples were placed on ice, in coolers, and submitted to Pace Analytical under chain of custody for the analyses listed below.

- VOCs - via U.S. EPA SW-846 method 8260
- PAHs - via U.S. EPA SW-846 method 8270
- Priority Pollutant Metal: Lead - via U.S. EPA SW-846 method 6010

A field trip blank, field duplicate, MS/MSD, and equipment blank (EB) were collected for Quality Assurance purposes. Specifically, a field duplicate was obtained from groundwater sample HH-GW-GP-13 and MS/MSD samples were obtained with groundwater sample HH-GW-GP-10. An EB was collected from distilled water poured over the non-dedicated sampling equipment. A trip blank was placed in the sample cooler prior to mobilization.

3.6 Groundwater Analytical Results

Groundwater analytical results indicated the on-site presence of lead in exceedance of the associated IDEM RCG Residential Drinking Water (R-DW) screening level at boring locations SB-02, SB-06, SB-08, SB-09, sample identifications HH-GW-GP-02, HH-GW-GP-06, HH-GW-GP-08, and HH-GW-GP-09.

No VOC or PAH analytes were in excess of IDEM RCG screening levels.

Groundwater analytical data is summarized in **Table 2A through 2C** and are depicted on **Figure 6**. Laboratory certificates of analysis and chains-of custody are included in **Appendix C**.

3.7 Potentiometric Surface Map Preparation

SE Sciences used observed groundwater levels in concert with select surveyed piezometer casing elevations to assess local groundwater flow patterns. The observed depth to water during December 6, 2013, groundwater gauging event ranged between 15.15 and 15.91 feet below the tops of the piezometer casings, corresponding to groundwater elevations ranging from 85.02 to 85.59 feet based on an arbitrary benchmark of 100 feet.

The associated groundwater flow direction is interpreted to be in a southerly direction toward the Ohio River. Groundwater gauging data are summarized in **Table 3**, and a potentiometric surface map depicting local groundwater flow conditions is included as **Figure 7**.

4.0 QUALITY CONTROL

A data quality control (QC) review was performed for all analytical data. Copies of the QC review spreadsheet tables are included in **Appendix D**. The data quality review was based on method performance and QC criteria, as specified in the EPA approved SAP and quality assurance project plan (QAPP). Hold times, initial and continuing calibrations, method blanks, surrogate recoveries, laboratory duplicate results, matrix spike/matrix spike duplicate (MS/MSD) results, and reporting limits (RLs) were reviewed to assess compliance with applicable methods and project requirements. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in EPA documents (EPA 1994, 1996). Assigned qualifiers are included with the data sheets. No data were rejected. Based upon the QC review, the data are acceptable and meet the project objectives.

Soil Data: During the field soil sampling event, thirteen (13) soil samples (HH-SB-GP-01 through HH-SB-GP-13), one (1) blind duplicate soil sample (HH-SB-GP-13), one (1) MS sample and MSD sample (HH-SB-GP-05), and one (1) field trip blank were collected and submitted to Pace Analytical Laboratory in Indianapolis. Samples were analyzed for VOC's, PAH's, and Lead. Field and Laboratory Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity (PARCCS) quality parameters were evaluated. A summary of the PARCCS data analyses performed on the associated soil data is presented in the attached PARCCS Soil Data Analysis table spreadsheets. Noteworthy data qualifiers, flags, and comments are as follows:

VOC's (Method 8260):

- Concentrations of all associated VOC analytes were below laboratory detection limits (ND) in both the field sample and associated field sample duplicate which results in calculated field Relative Percent Difference (RPD) equal to 0 for all VOC analytes.
- Due to inherent grab nature of Terra Core soil sampling, RPDs (MS vs MSD) exceeded 20% goal for several reported analytes.
- Laboratory Control Samples (LCS) % recovery not met for methylene chloride in LCS #1026792, LCS% recovery not met for carbon disulfide in LCS #1028005, LCS% recovery not met for trans-1,3-dichloropropene in LCS #1028781: However, all associated samples have concentrations of these analytes below RLs. Therefore, high bias doesn't significantly affect accuracy of data.
- MS vs MSD % recovery exceeds laboratory limit for vinyl acetate in field MS/MSD sample. Vinyl acetate concentration was below detection limits in all associated samples. Therefore, accuracy of data is not significantly affected.
- Total xylene RL exceed stated Pace RL stated in QAPP Table 3A. However, associated IDEM screening levels are 6 orders of magnitude greater than stated laboratory RL. Therefore laboratory RL exceedance for total xylenes does not significantly affect quality of data.

- 1,2 -Dibromoethane (EDB) RL meets all relevant IDEM screening levels except for 2009 IDEM RISK Residential Limits and 2012 RCG Res Soil MTG due to analytical method 8260. See attached IDEM guidance document regarding EDB and VOC method 8260 approval (included in Appendix D).

PAH's (Method 8270):

- Concentrations of all associated PAH analytes were ND in both the field sample and associated field sample duplicate which results in calculated field RPD equal to 0 for all PAH analytes.
- Due to inherent grab nature of Terra Core soil sampling, RPDs (MS vs MSD) exceeded 20% goal for several reported analytes in the field sample.
- Trip Blank was analyzed for VOC 8260 only.
- RL's for all PAH soil analytes exceed Pace RL's stated in QAPP Table 3A. However, associated IDEM screening levels are 6 orders of magnitude greater than stated laboratory RL. Therefore, laboratory RL exceedances do not significantly affect quality of data.
- EPA method 8270 is more sensitive for naphthalene detection than is EPA method 8260. Great variability in naphthalene concentration is commonly found when comparing soil data from both methods. Higher naphthalene concentrations measured by EPA method 8270 are more accurate than EPA method 8260 data.

Lead (Method 6010):

- Trip Blank was not analyzed by EPA method 6010 for lead.
- Surrogates are not used for EPA method 6010.

No soil data were rejected.

Groundwater: During the field groundwater sampling event, thirteen (13) groundwater samples (HH-GW-GP-01 through HH-GW-GP-13), one (1) duplicate groundwater sample (HH-GW-GP-13), one (1) MS/MSD sample set (HH-GW-GP-10), one (1) EB sample, and one (1) field trip blank were collected and submitted to Pace Analytical Laboratory in Indianapolis. Samples were analyzed for VOC's, PAH's, and Lead. Field and Laboratory PARCCS quality parameters were evaluated. A summary of the PARCCS data analyses performed on the associated groundwater data is presented in the attached PARCCS Groundwater Data Analysis table spreadsheets. Noteworthy data qualifiers, flags, and comments are as follows:

VOC's (Method 8260):

- Concentrations of all associated VOC analytes were ND in both the field sample and associated field sample duplicate which results in calculated field RPD equal to 0 for all VOC analytes in groundwater.
- Duplicate groundwater sampling method commonly results in high RPD (MS vs MSD), which was seen with several analytes.
- Analyte recovery of 1,1-dichloroethane outside QA/QC limits and recovery of iodomethane and methylene chloride exceed LCS limit in LCS #103040. All analyte recoveries for LCS #1028934 and LCS #1029708 were within QA/QC limits. Quality of related data is not significantly affected.
- MS and MSD % recovery were outside lab limits for iodomethane for MS/MSD field sample. However, analyte was not present above detection limit in any associated samples. Therefore, high bias does not significantly affect the quality of data.
- 1,2 -Dibromoethane (EDB) RL does not meet IDEM default Industrial or Residential GW screening levels due to analytical method 8260. See attached IDEM guidance document regarding EDB and VOC method 8260 approval. RLs for acrolein and 1,1,2,2-tetrachloroethane does not meet 2009 RISK Residential Limits.

PAH's (Method 8270):

- Duplicate groundwater sample was analyzed for VOC 8260 only.
- Field Blank and EB were ran for VOC 8260 analytes only.
- Laboratory RL for dibenz[a,h]anthracene does not meet IDEM 2012 RCG Res Tap Limits. RL's meet all other relevant screening levels for this and remaining PAH analytes reported.

Lead (Method 6010):

- Field Duplicate, Field Blank and EB were ran for VOC 8260 analytes only.
- Surrogates are not used for Method 6010

No groundwater data were rejected.

5.0 SUMMARY

In December of 2013, SE Sciences conducted a limited Phase II ESA including the advancement of thirteen (13) soil borings, collected thirteen (13) soil sample sets, and thirteen (13) groundwater sample sets from the Site to investigate the presence or absence of chemical impacts as a result of historic on-site activities.

Petroleum Hydrocarbons

Limited petroleum (PAHs) impacts were indentified in the soils adjacent to the former UST area in the north central portion of the Site. PAH impacts in excess of IDEM RCG MTG and R-DC screening levels were indentified in the unsaturated portion of the soil profile at depths ranging from 4 to 11-feet below grade. However, the entire Site is capped with an asphalt parking lot and building structure, and migration of the PAH constituents to the underlying groundwater and/or residential direct contact with the impacted soils is highly unlikely. Also, all groundwater PAH analytical results were below laboratory detection limits; thus providing evidentiary support of the stability of the adsorbed impacts. Given the commercial nature of the Site and the continued property usage as such, it is unlikely that additional petroleum hydrocarbon investigation would be warranted.

Lead

Soil and groundwater lead impacts were indentified at boring locations adjacent to the former UST area in the north central portion of the Site. Lead impacts in excess of IDEM RCG I-DC screening levels were indentified in the unsaturated portion of the soil profile at depths ranging from 4 to 5-feet below grade. Groundwater concentrations in excess of IDEM RCG drinking water standards were discovered in the former UST area and immediately downgradient, along the southern property boundary.

SE Sciences recommends additional investigation to delineate the horizontal and vertical extent of soil and groundwater lead impacts at the Site. Recommended further evaluative efforts include the following activities:

1. SE Sciences will collect up to eighteen (18) soil samples from six (6) locations (SB-14 through SB-19) (adjacent to boring location SB-7) to delineate the extent of adsorbed lead impacts. At each location, a soil sample will be collected between 0 to 0.5-feet, 4.0 to 5.0-feet, and 9.0 to 10.0-feet below grade to further assess the vertical lead impact associated with the historical UST area.
2. Groundwater samples will also be collected from SB-14 through SB-19 and analyzed for both total and dissolved-phase lead to further assess the extent and nature of horizontal impacts at the Site.
3. Upon acceptance of this Limited Phase II Report, a supplemental SAP document will be developed outlining the proposed work activities.

6.0 LIMITATIONS OF STUDY

Our professional services have been performed, our findings obtained, and our summary prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This statement is in lieu of other statements either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the site investigation presented in this report.

An inherent limitation in any investigation of this type is that conclusions are made based on the data reviewed and collected at a limited number of discrete locations. Geological, hydrogeological, and climatological conditions may vary from those assumed to be present. In addition, the use of a conceptual model to describe actual site conditions is based on a number of assumptions that simplify the complex nature of the real environment. As with all models, this deviation between what has been assumed and what is reality can impact the accuracy and validity of the results.

The environmental evaluations made herein are also inherently limited in the sense that conclusions are drawn and recommendations developed from information obtained from limited research and site evaluation. For these types of evaluations, it is often necessary to use information prepared by others and SE Sciences cannot be responsible for the accuracy of such information. Additionally, the passage of time may result in a change in the environmental characteristics at this site and surrounding properties. This report does not warrant against future operations or conditions, nor does it warrant operation or conditions present of a type or at a location not investigated. It also does not warrant against the future state-of-practice changes that may occur in the field of environmental investigation and human health risk assessment.

The scope of work completed has been limited to the specific tasks previously described. This assessment is intended for the sole use of Approved Auto of America and the City of New Albany. No other company, entity or person shall have rights with regards to SE Sciences contract with Approved Auto of America and the City of New Albany, including but not limited to indemnification by SE Sciences, or rights of reliance on the findings, conclusions, and recommendations of this or any subsequent reports regarding this Site. Consequently, the use or re-use of this document or the findings, conclusions, or recommendations is at the risk of said user.

TABLES

TABLE 1A												
SOIL ANALYTICAL RESULTS - VOCs												
FORMER HITCH AND HAUL			528 STATE STREET				NEW ALBANY, IN					
Date Sampled	Sample Location	Sample Depth (feet below grade)	n-Butylbenzene	sec-Butylbenzene	Ethylbenzene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Naphthalene	n-Propylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene (Total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
12/4/2013	HH-SB-GP-01	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-02	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-03	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-04	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-05	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-06	10' - 11'	0.181	0.0882	0.0886	0.108	0.100	0.370	0.177	1.130	0.402	0.100
12/4/2013	HH-SB-GP-07	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-08	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-09	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-10	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-11	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-12	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-13	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-13(DUP)	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Soil MTG Residential (2013)			50	--	16	13	--	0.092	20	0.44	2.5	200
Soil Direct Exposure - Residential (2013)			110	--	76	270	--	50	260	87	180	260
Soil Direct Exposure - Industrial (2013)			110	--	270	270	--	180	260	220	180	260

NOTES:
- **Bold** = Soil analytical results exceeding IDEM RCG 2013 Soil MTG Residential Screening Levels
- **Bold and Green** = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Residential Screening Levels
- **Bold and Yellow** = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Industrial Screening Levels
ND = below laboratory detection limits
NA = not applicable
mg/kg = milligrams per kilogram (part per million)
Samples analyzed for: VOCs via U.S. EPA Method 8260/5035
Complete analytical data sheets are attached as **Appendix C**

TABLE 1B
SOIL ANALYTICAL RESULTS - PAHs

Date Sampled	Sample Location	Sample Depth (feet below grade)	FORMER HITCH AND HAUL 528 STATE STREET NEW ALBANY, IN																	
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylaphthlene	2-Methylaphthlene	Naphthalene	Phenanthrene	Pyrene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
12/4/2013	HH-SB-GP-01	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-02	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-03	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-04	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-05	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-06	10' - 11'	0.0115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0078	ND	1.940	4.290	4.170	0.0131	ND
12/4/2013	HH-SB-GP-07	4' - 5'	0.043	ND	0.137	0.463	0.490	0.563	0.333	0.475	0.625	0.132	0.636	ND	0.291	2.820	5.160	1.850	1.010	0.631
12/4/2013	HH-SB-GP-08	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-09	14' - 15'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-10	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-11	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-12	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-13	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
12/4/2013	HH-SB-GP-13(DUP)	4' - 5'	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Soil MTG Residential (2013)			82	--	860	2.1	2.1	7	--	68	210	2.2	1,400	81	40	1	2.8	0.092	--	190
Soil Direct Exposure - Residential (2013)			4,800	--	24,000	2.1	0.21	2.1	--	21	210	0.21	3,200	3,200	2.1	220	320	50	--	2,400
Soil Direct Exposure - Industrial (2013)			33,000	--	100,000	21	4.7	21	--	210	2,100	2.1	22,000	22,000	21	530	2,200	180	--	17,000

NOTES:

- **Bold** = Soil analytical results exceeding IDEM RCG 2013 Soil MTG Residential Screening Levels
- **Bold and Green** = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Residential Screening Levels
- **Bold and Yellow** = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Industrial Screening Levels
- ND = below laboratory detection limits
- NA = not applicable
- mg/kg = milligrams per kilogram (part per million)
- Samples analyzed for: PAHs via U.S. EPA Method 8270
- Complete analytical data sheets are attached as **Appendix C**

TABLE 1C

SOIL ANALYTICAL RESULTS - METALS

FORMER HITCH AND HAUL 528 STATE STREET NEW ALBANY, IN

Date Sampled	Sample Location	Sample Depth (feet below grade)	Lead
			mg/kg
12/4/2013	HH-SB-GP-01	14' - 15'	7.0
12/4/2013	HH-SB-GP-02	14' - 15'	6.8
12/4/2013	HH-SB-GP-03	14' - 15'	6.6
12/4/2013	HH-SB-GP-04	14' - 15'	7.7
12/4/2013	HH-SB-GP-05	14' - 15'	7.3
12/4/2013	HH-SB-GP-06	10' - 11'	24.1
12/4/2013	HH-SB-GP-07	4' - 5'	1,060
12/4/2013	HH-SB-GP-08	14' - 15'	7.3
12/4/2013	HH-SB-GP-09	14' - 15'	7.7
12/4/2013	HH-SB-GP-10	4' - 5'	10.0
12/4/2013	HH-SB-GP-11	4' - 5'	10.8
12/4/2013	HH-SB-GP-12	4' - 5'	12.4
12/4/2013	HH-SB-GP-13	4' - 5'	10.9
12/4/2013	HH-SB-GP-13(DUP)	4' - 5'	10.8
Soil MTG Residential (2013)			270
Soil Direct Exposure - Residential (2013)			400
Soil Direct Exposure - Industrial (2013)			800
<p>NOTES:</p> <ul style="list-style-type: none"> - Bold = Soil analytical results exceeding IDEM RCG 2013 Soil MTG Residential Screening Levels - Bold and Green = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Residential - Bold and Yellow = Soil analytical results exceeding IDEM RCG 2013 Direct Soil Exposure Industrial <p>ND = below laboratory detection limits NA = not applicable mg/kg = milligrams per kilogram (part per million) Samples analyzed for: Lead via U.S. EPA Method 6010 Complete analytical data sheets are attached as Appendix C</p>			

TABLE 2A			
GROUNDWATER ANALYTICAL RESULTS - VOCs			
FORMER HITCH AND HAUL		528 STATE STREET	NEW ALBANY, IN
Date Sampled	Sample Location	Sample Depth (feet below grade)	VOCs 8260
			ug/L
12/6/2013	HH-GW-GP-1	17'	ND
12/6/2013	HH-GW-GP-2	17'	ND
12/5/2013	HH-GW-GP-3	17'	ND
12/5/2013	HH-GW-GP-4	17'	ND
12/5/2013	HH-GW-GP-5	17'	ND
12/5/2013	HH-GW-GP-6	17'	ND
12/5/2013	HH-GW-GP-7	17'	ND
12/5/2013	HH-GW-GP-8	17'	ND
12/5/2013	HH-GW-GP-9	17'	ND
12/6/2013	HH-GW-GP-10	17'	ND
12/6/2013	HH-GW-GP-11	17'	ND
12/6/2013	HH-GW-GP-12	17'	ND
12/5/2013	HH-GW-GP-13	17'	ND
12/5/2013	HH-GW-GP-SBD (13)	17'	ND
12/5/2013	HH-GW-GP-FEB	NA	ND
12/5/2013	Trip Blank	NA	ND
Residential Tap (2013)			--
Residential Vapor Intrusion (2013)			--
Industrial Vapor Intrusion (2013)			--
NOTES: - Bold = Groundwater analytical results exceeding IDEM RCG 2013 Tap Screening Levels - Bold and Green = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion Residential - Bold and Yellow = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion Industrial Screening ND = below laboratory detection limits. NA = not applicable ug/L = micrograms per liter (part per billion) Samples analyzed for: VOCs via U.S. EPA Method 8260 Complete analytical data sheets are attached as Appendix C			

TABLE 2B

GROUNDWATER ANALYTICAL RESULTS - PAHs

FORMER HITCH AND HAUL 528 STATE STREET NEW ALBANY, IN

Date Sampled	Sample Location	Sample Depth (feet below grade)	PAHs 8270
			ug/L
12/6/2013	HH-GW-GP-1	17'	ND
12/6/2013	HH-GW-GP-2	17'	ND
12/5/2013	HH-GW-GP-3	17'	ND
12/5/2013	HH-GW-GP-4	17'	ND
12/5/2013	HH-GW-GP-5	17'	ND
12/5/2013	HH-GW-GP-6	17'	ND
12/5/2013	HH-GW-GP-7	17'	ND
12/5/2013	HH-GW-GP-8	17'	ND
12/5/2013	HH-GW-GP-9	17'	ND
12/6/2013	HH-GW-GP-10	17'	ND
12/6/2013	HH-GW-GP-11	17'	ND
12/6/2013	HH-GW-GP-12	17'	ND
12/5/2013	HH-GW-GP-13	17'	ND
12/5/2013	HH-GW-GP-SBD (13)	17'	ND
12/5/2013	HH-GW-GP-FEB	NA	ND
12/5/2013	Trip Blank	NA	ND
Residential Tap (2013)			--
Residential Vapor Intrusion (2013)			--
Industrial Vapor Intrusion (2013)			--
<p>NOTES:</p> <ul style="list-style-type: none"> - Bold = Groundwater analytical results exceeding IDEM RCG 2013 Tap Screening Levels - Bold and Green = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion Residential - Bold and Yellow = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion Industrial <p>ND = below laboratory detection limits. NA = not applicable ug/L = micrograms per liter (part per billion). Samples analyzed for: VOCs via U.S. EPA Method 8270 Complete analytical data sheets are attached as Appendix C</p>			

TABLE 2C			
GROUNDWATER ANALYTICAL RESULTS - METALS			
FORMER HITCH AND HAUL		528 STATE STREET	NEW ALBANY, IN
Date Sampled	Sample Location	Sample Depth (feet below grade)	Lead
			ug/L
12/6/2013	HH-GW-GP-1	17'	ND
12/6/2013	HH-GW-GP-2	17'	26.0
12/5/2013	HH-GW-GP-3	17'	14.0
12/5/2013	HH-GW-GP-4	17'	10.9
12/5/2013	HH-GW-GP-5	17'	ND
12/5/2013	HH-GW-GP-6	17'	93.4
12/5/2013	HH-GW-GP-7	17'	10.3
12/5/2013	HH-GW-GP-8	17'	80.6
12/5/2013	HH-GW-GP-9	17'	78.0
12/6/2013	HH-GW-GP-10	17'	ND
12/6/2013	HH-GW-GP-11	17'	ND
12/6/2013	HH-GW-GP-12	17'	ND
12/5/2013	HH-GW-GP-13	17'	ND
12/5/2013	HH-GW-GP-SBD (13)	NA	ND
12/5/2013	HH-GW-GP-FEB	NA	ND
12/5/2013	Trip Blank	NA	ND
Residential Tap (2013)			15
Residential Vapor Intrusion (2013)			--
Industrial Vapor Intrusion (2013)			--
NOTES:			
- Bold = Groundwater analytical results exceeding IDEM RCG 2013 Tap Screening Levels			
- Bold and Green = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion			
- Bold and Yellow = Groundwater analytical results exceeding IDEM RCG 2013 Vapor Intrusion			
ND = below laboratory detection limits.			
NA = not applicable			
ug/L = micrograms per liter (part per billion)			
Samples analyzed for: Lead via U.S. EPA Method 6010			
Complete analytical data sheets are attached as Appendix C			

TABLE 3: SAMPLING LOCATION DETAILS AND GROUNDWATER ELEVATIONS

FORMER HITCH AND HAUL																		528 STATE STREET						NEW ALBANY, INDIANA					
SAMPLING LOCATION NO.			SB-1			SB-2			SB-3			SB-4			SB-5			SB-6											
TPZ DIAMETER (inches)			0.75"			0.75"			0.75"			0.75"			0.75"			0.75"											
TPZ DEPTH (ft bgs)			20.45			20.10			19.90			20.45			20.00			20.85											
SCREEN INTERVAL (ft bgs)			10.45 - 20.45			10.10 - 20.10			9.90 - 19.90			10.45 - 20.45			10.00 - 20.00			10.85 - 20.85											
TOC ELEVATION*			100.75			--			100.46			--			101.10			101.06											
DATE			DTW	ELE	FP	DTW	ELE	FP																					
12/06/13			15.51	85.24	---	15.90	--	---	15.44	85.02	---	15.51	--	---	15.54	85.56	---	15.47	85.59	---									
SAMPLING LOCATION NO.			SB-7			SB-8			SB-9			SB-10			SB-11			SB-12											
TPZ DIAMETER (inches)			0.75"			0.75"			0.75"			0.75"			0.75"			0.75"											
TPZ DEPTH (ft bgs)			19.85			20.65			20.00			19.55			20.20			19.95											
SCREEN INTERVAL (ft bgs)			9.85 - 19.85			10.65 - 20.65			10.00 - 20.00			9.55 - 19.55			10.20 - 20.20			9.95 - 20.95											
TOC ELEVATION*			--			100.85			--			--			--			--											
DATE			DTW	ELE	FP	DTW	ELE	FP																					
12/06/13			15.55	--	---	15.45	85.40	---	15.73	--	---	15.75	--	---	15.91	--	---	15.78	--	---									
SAMPLING LOCATION NO.			SB-13																										
TPZ DIAMETER (inches)			0.75"																										
TPZ DEPTH (ft bgs)			20.15																										
SCREEN INTERVAL (ft bgs)			10.15 - 20.15																										
TOC ELEVATION*			--																										
DATE			DTW	ELE	FP																								
12/06/13			15.76	--	---																								

Notes:

Blank = no data
 DTW = depth to water in feet
 ELE = elevation in feet
 --- = No data available

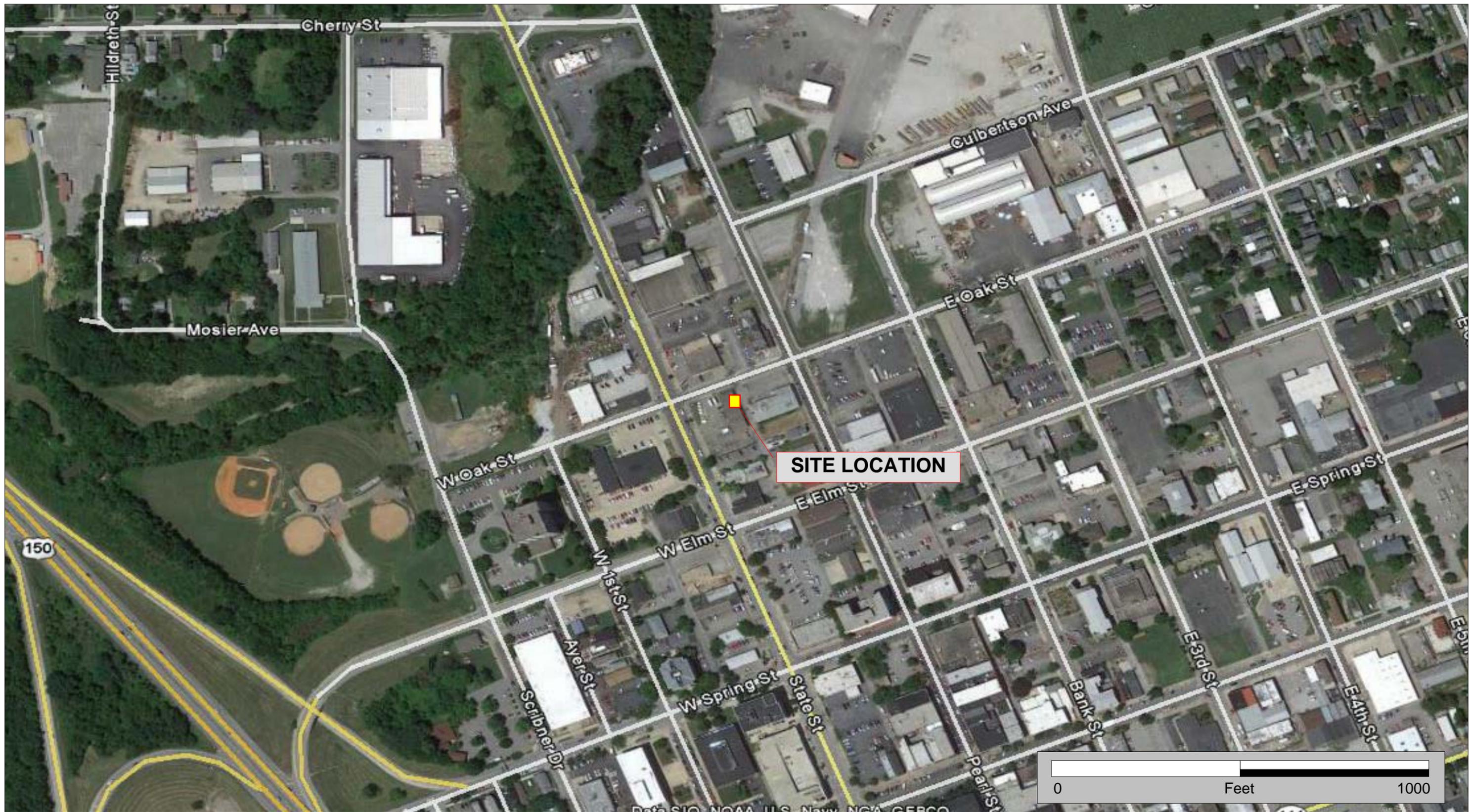
FP = free product thickness in feet (Non-Aqueous Phase Liquid)
 ft bgs = feet below ground surface
 TPZ = temporary piezometer
 TOC = top of casing

Note: TOC elevation based on arbitrary bench mark of 100.00'.

Prepared By: JHS 2-4-14

Checked By: JAS 2-16-14

FIGURES



SPECIALTY EARTH SCIENCES, LLC
 4350 Security Pkwy. New Albany, IN 47150

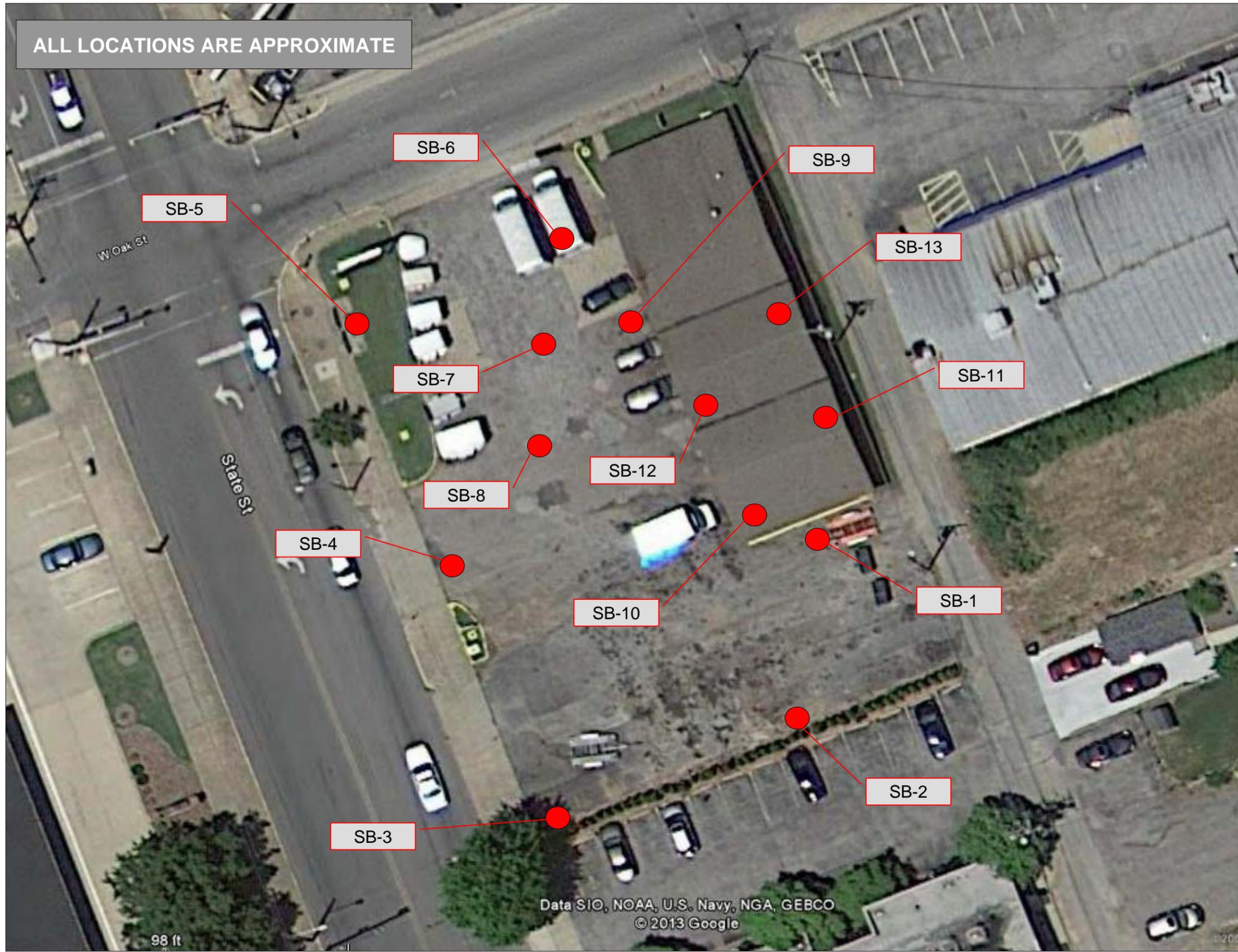
Former Hitch and Haul, 528 State Street, New Albany, Indiana

Site Map

DATE: 2-17-2014
 SCALE: As Shown
 PROJ NO.: 4350-12-152

FIGURE 1

ALL LOCATIONS ARE APPROXIMATE



528 State Street Property

KEY MAP

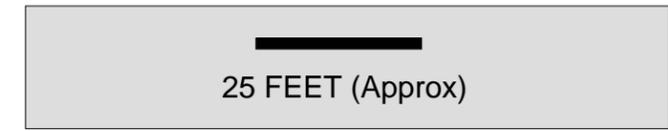
LEGEND



DIRECT PUSH SOIL BORING LOCATION



BORING LOCATION IDENTIFICATION



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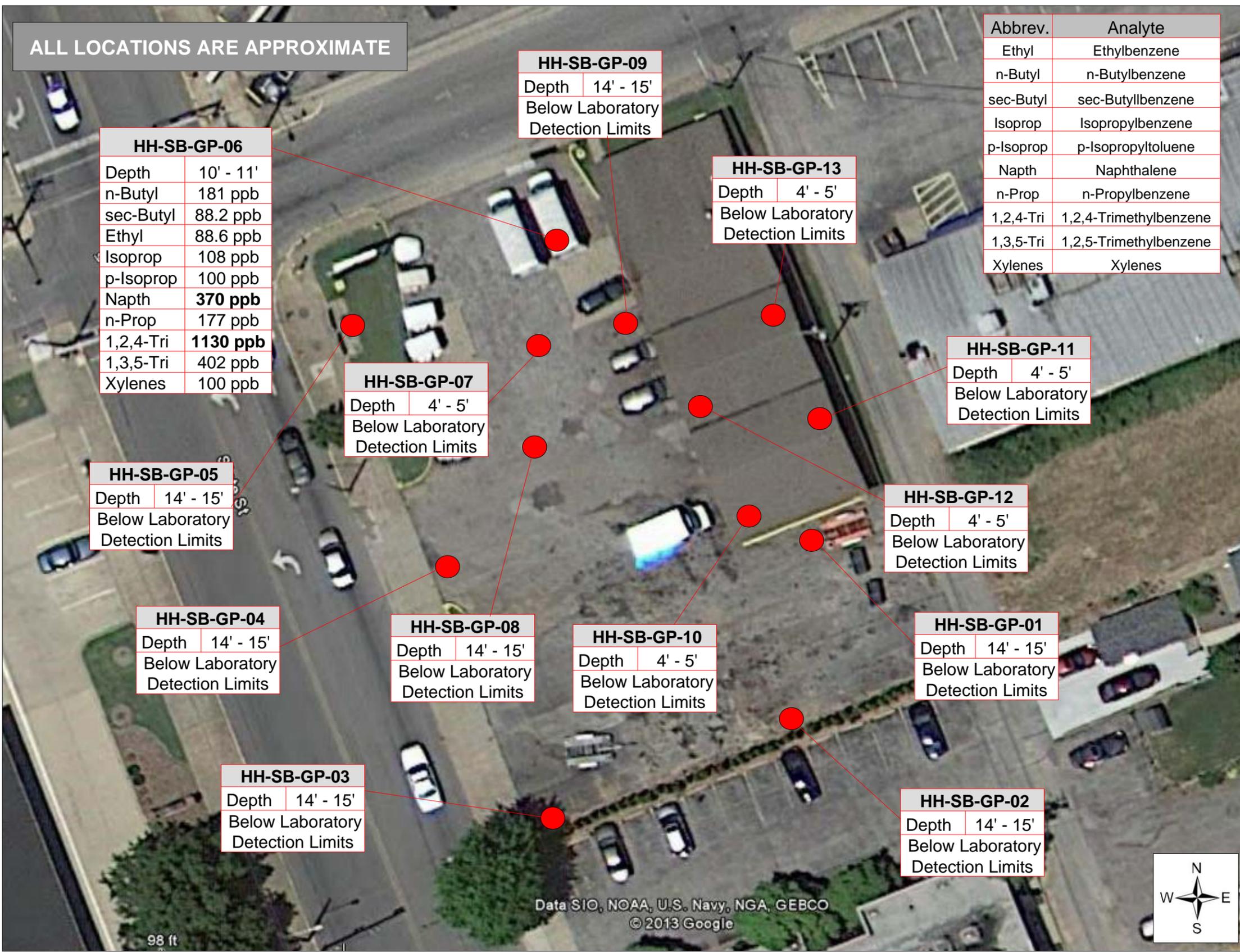
Former Hitch and Haul, 528 State Street, New Albany, Indiana

Direct Push Investigational Borings Map

DATE: 2-17-14
SCALE: As Shown
PROJ NO.: 4350-12-152

FIGURE 2

ALL LOCATIONS ARE APPROXIMATE



Abbrev.	Analyte
Ethyl	Ethylbenzene
n-Butyl	n-Butylbenzene
sec-Butyl	sec-Butylbenzene
Isoprop	Isopropylbenzene
p-Isoprop	p-Isopropyltoluene
Naph	Naphthalene
n-Prop	n-Propylbenzene
1,2,4-Tri	1,2,4-Trimethylbenzene
1,3,5-Tri	1,2,5-Trimethylbenzene
Xylenes	Xylenes

LEGEND

- DIRECT PUSH SOIL BORING LOCATION
- HM-SB-GP-01 BORING LOCATION AND SOIL SAMPLE IDENTIFICATION
- 5.7 ppb MICROGRAMS/ KILOGRAM
- PCE SAMPLE ANALYTE

NOTES:

R-MTG = Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential Migration to Groundwater Screening Levels.

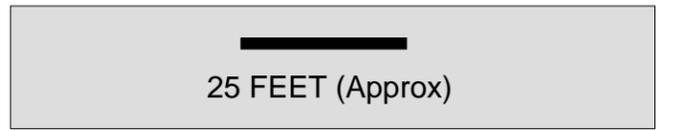
R-DC = IDEM RCG Residential Direct Contact Screening Levels.

C/I-DC = IDEM RCG Commercial/ Industrial Direct Contact Screening Levels.

BOLD concentration indicates exceedance of 2013 IDEM RCG residential screening level for soil migration to groundwater.

GREEN highlighted concentration indicates exceedance of 2013 IDEM RCG residential screening level for direct contact soil exposure.

YELLOW highlighted concentration indicates exceedance of 2013 IDEM RCG commercial/ industrial screening level for direct contact soil exposure.



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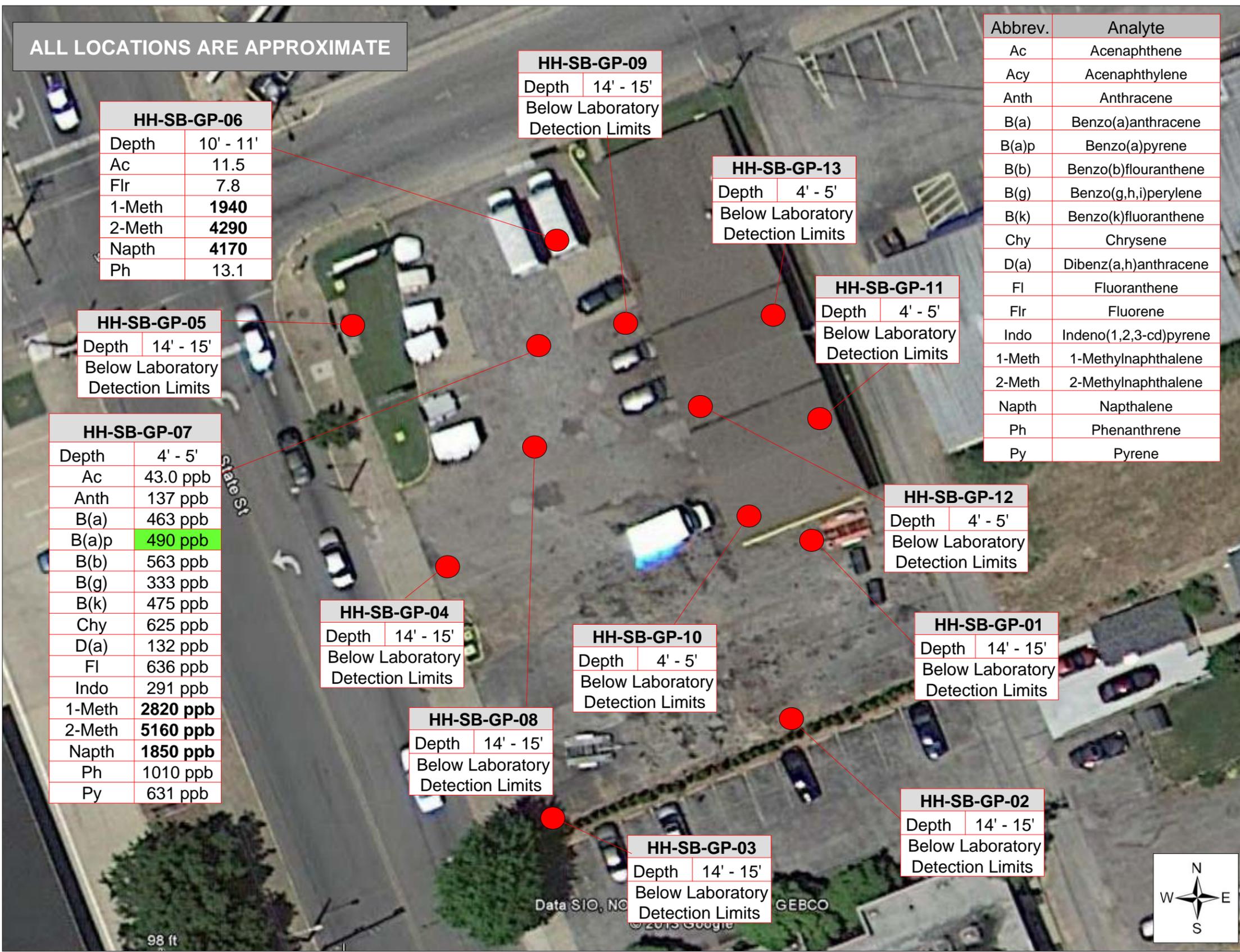
Former Hitch and Haul, 528 State Street, New Albany, Indiana

DATE: 2-17-14
SCALE: As Shown
PROJ NO.: 4350-12-152

Soil Analytical Results – Detected VOCs - Direct Push Grab Samples

FIGURE 3

ALL LOCATIONS ARE APPROXIMATE



HH-SB-GP-06

Depth	10' - 11'
Ac	11.5
Flr	7.8
1-Meth	1940
2-Meth	4290
Naph	4170
Ph	13.1

HH-SB-GP-09

Depth	14' - 15'
Below Laboratory Detection Limits	

HH-SB-GP-13

Depth	4' - 5'
Below Laboratory Detection Limits	

HH-SB-GP-11

Depth	4' - 5'
Below Laboratory Detection Limits	

HH-SB-GP-12

Depth	4' - 5'
Below Laboratory Detection Limits	

HH-SB-GP-01

Depth	14' - 15'
Below Laboratory Detection Limits	

HH-SB-GP-10

Depth	4' - 5'
Below Laboratory Detection Limits	

HH-SB-GP-04

Depth	14' - 15'
Below Laboratory Detection Limits	

HH-SB-GP-08

Depth	14' - 15'
Below Laboratory Detection Limits	

HH-SB-GP-03

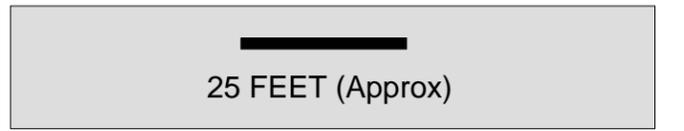
Depth	14' - 15'
Below Laboratory Detection Limits	

Abbrev.	Analyte
Ac	Acenaphthene
Acy	Acenaphthylene
Anth	Anthracene
B(a)	Benzo(a)anthracene
B(a)p	Benzo(a)pyrene
B(b)	Benzo(b)fluoranthene
B(g)	Benzo(g,h,i)perylene
B(k)	Benzo(k)fluoranthene
Chy	Chrysene
D(a)	Dibenz(a,h)anthracene
Fl	Fluoranthene
Flr	Fluorene
Indo	Indeno(1,2,3-cd)pyrene
1-Meth	1-Methylnaphthalene
2-Meth	2-Methylnaphthalene
Naph	Napthalene
Ph	Phenanthrene
Py	Pyrene

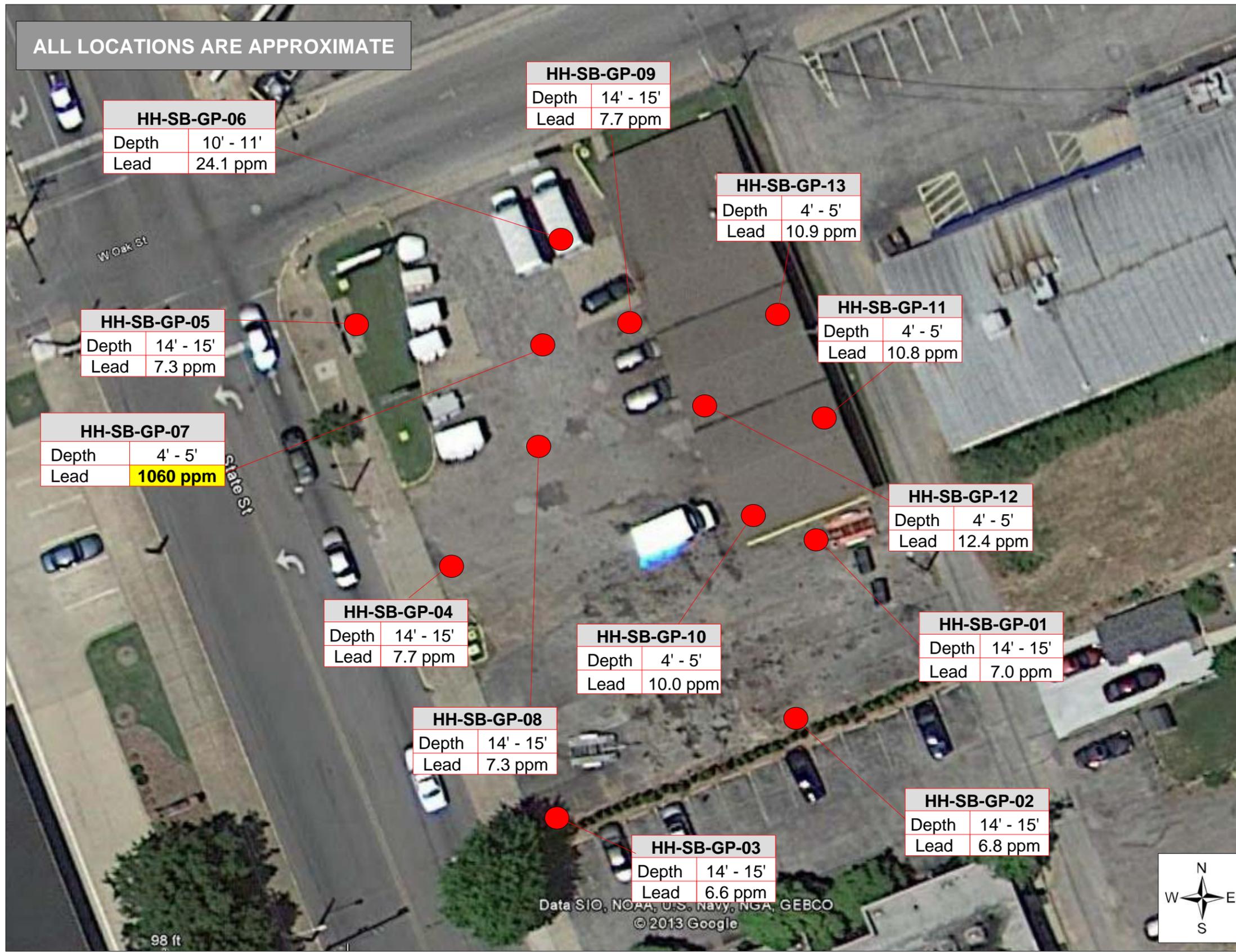
LEGEND

- DIRECT PUSH SOIL BORING LOCATION
- BORING LOCATION AND SOIL SAMPLE IDENTIFICATION
- MICROGRAMS/ KILOGRAM
- SAMPLE ANALYTE

NOTES:
 R-MTG = Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential Migration to Groundwater Screening Levels.
 R-DC = IDEM RCG Residential Direct Contact Screening Levels.
 C/I-DC = IDEM RCG Commercial/ Industrial Direct Contact Screening Levels.
BOLD concentration indicates exceedance of 2013 IDEM RCG residential screening level for soil migration to groundwater.
GREEN highlighted concentration indicates exceedance of 2013 IDEM RCG residential screening level for direct contact soil exposure.
YELLOW highlighted concentration indicates exceedance of 2013 IDEM RCG commercial/ industrial screening level for direct contact soil exposure.



ALL LOCATIONS ARE APPROXIMATE



LEGEND

● DIRECT PUSH SOIL BORING LOCATION

HM-SB-GP-01 BORING LOCATION AND SOIL SAMPLE IDENTIFICATION

5.7 ppm MILLIGRAMS/ KILOGRAM

Lead SAMPLE ANALYTE

NOTES:

R-MTG = Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential Migration to Groundwater Screening Levels.

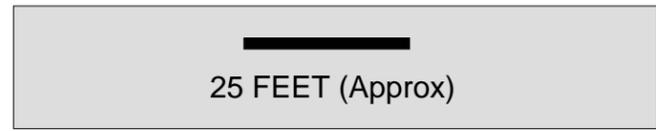
R-DC = IDEM RCG Residential Direct Contact Screening Levels.

C/I-DC = IDEM RCG Commercial/ Industrial Direct Contact Screening Levels.

BOLD concentration indicates exceedance of 2013 IDEM RCG residential screening level for soil migration to groundwater.

GREEN highlighted concentration indicates exceedance of 2013 IDEM RCG residential screening level for direct contact soil exposure.

YELLOW highlighted concentration indicates exceedance of 2013 IDEM RCG commercial/ industrial screening level for direct contact soil exposure.



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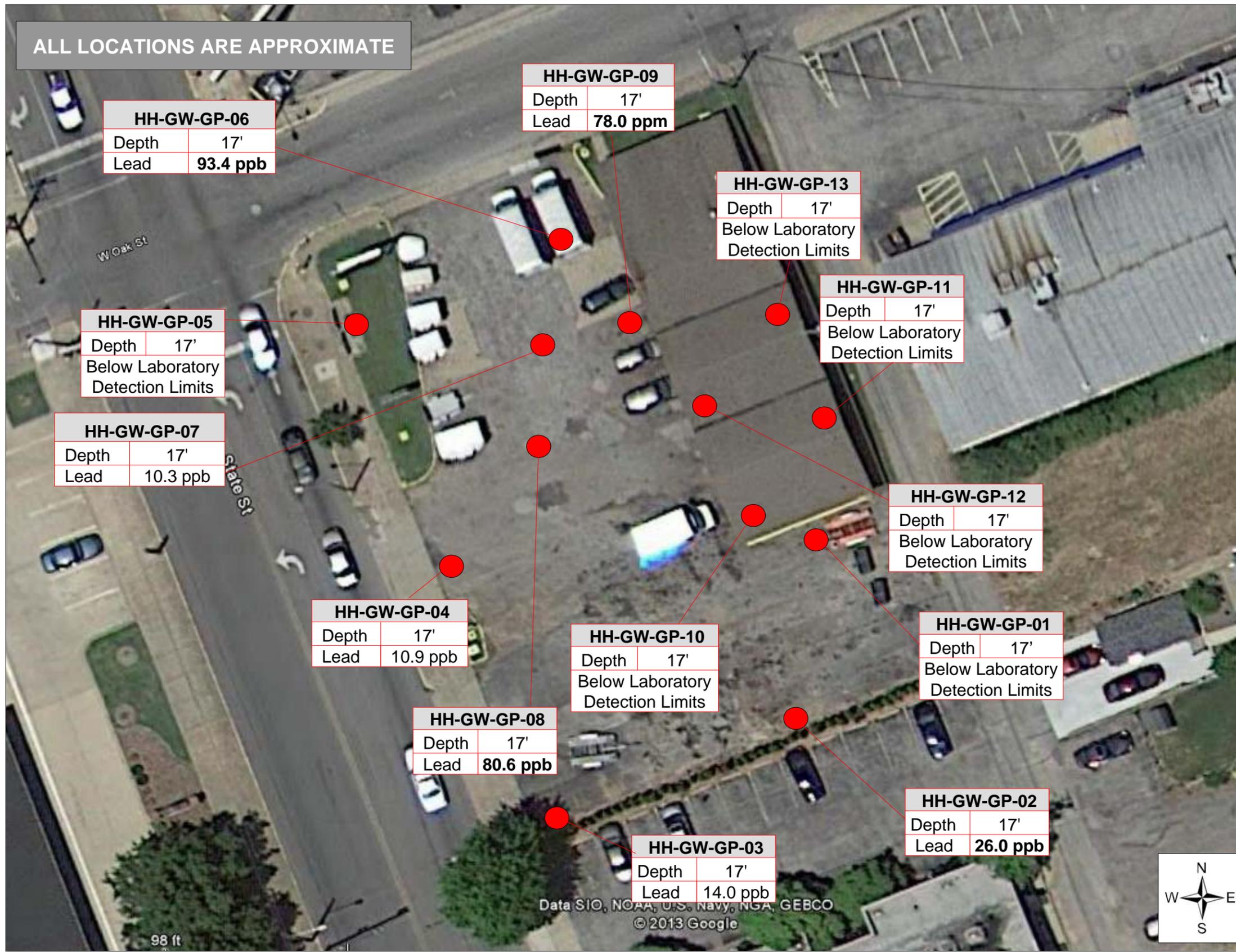
Former Hitch and Haul, 528 State Street, New Albany, Indiana

DATE: 2-17-14
SCALE: As Shown
PROJ NO.: 4350-12-152

Soil Analytical Results – Metals: Lead - Direct Push Grab Samples

FIGURE 5

ALL LOCATIONS ARE APPROXIMATE



LEGEND

DIRECT PUSH GROUNDWATER BORING LOCATION

BORING LOCATION AND GROUNDWATER SAMPLE IDENTIFICATION

5.7 ppb MICROGRAMS/ LITER

PCE SAMPLE ANALYTE

NOTES:

R-Tap = Indiana Department of Environmental Management (IDEM) Remediation Closure Guide (RCG) Residential Tap Screening Levels.

R-VI = IDEM RCG Residential Groundwater Vapor Intrusion Screening Levels

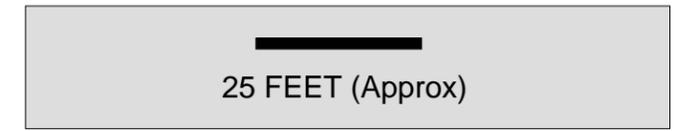
C/I-DC = IDEM RCG Commercial/ Industrial Groundwater Vapor Intrusion Screening Levels

BOLD concentration indicates exceedance of 2013 IDEM RCG residential Tap Screening Levels.

GREEN highlighted concentration indicates exceedance of 2013 IDEM RCG residential screening level for vapor intrusion.

YELLOW highlighted concentration indicates exceedance of 2013 IDEM RCG commercial/ industrial screening level for direct contact soil exposure.

Analyses = VOCs 8260, PAHs 8270, Lead 6010



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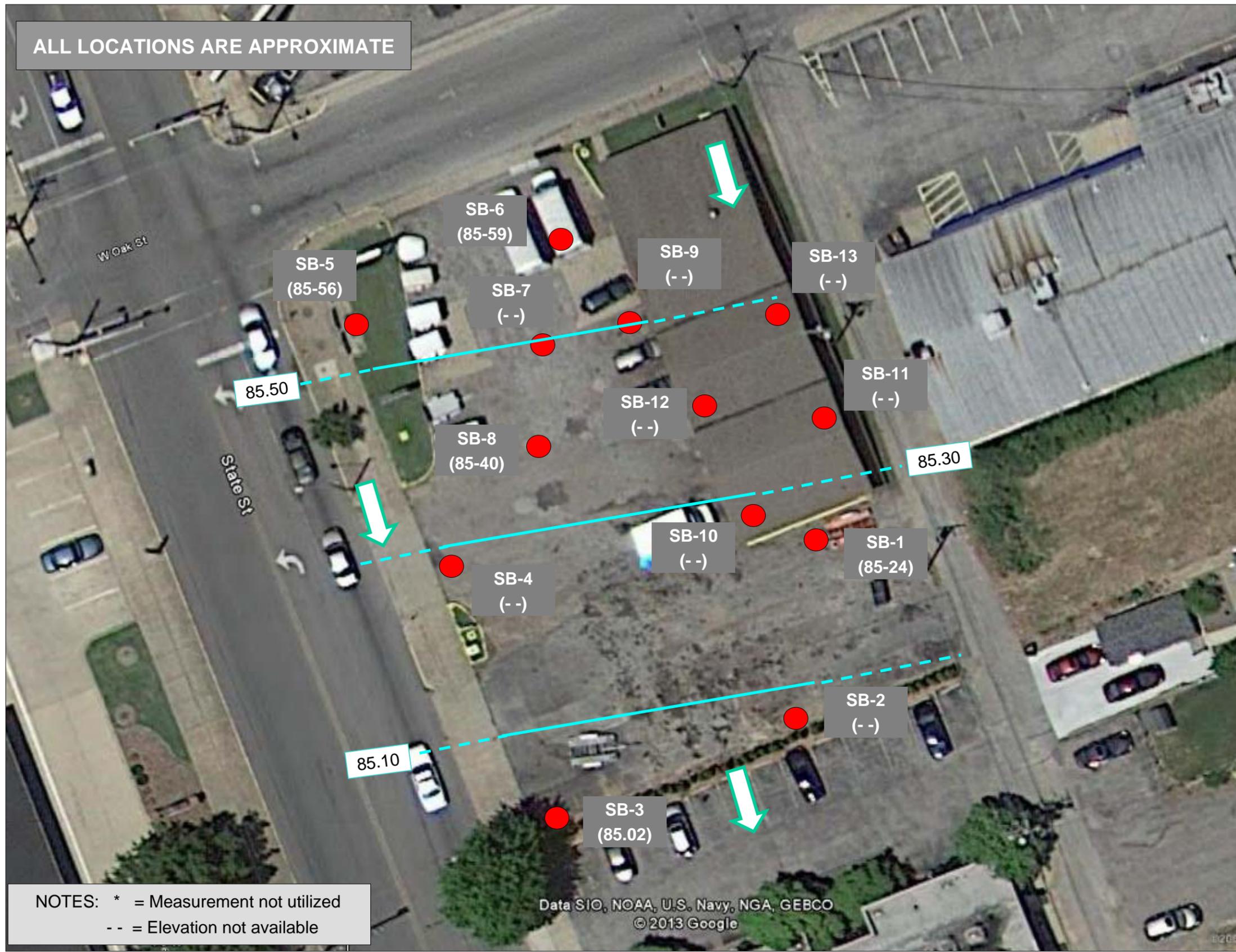
Former Hitch and Haul, 528 State Street, New Albany, Indiana

DATE: 2-17-14
SCALE: As Shown
PROJ NO.: 4350-12-152

Groundwater Analytical Results - Direct Push Grab Samples

FIGURE 6

ALL LOCATIONS ARE APPROXIMATE



NOTES: * = Measurement not utilized
 -- = Elevation not available



KEY MAP

LEGEND

-  DIRECT PUSH SOIL BORING LOCATION
 -  GROUNDWATER ELEVATION
 -  BORING LOCATION IDENTIFICATION
 -  GROUNDWATER FLOW DIRECTION
- 
 25 FEET (Approx)



SPECIALTY EARTH SCIENCES, LLC
 4350 Security Pkwy. New Albany, IN 47150

Former Hitch and Haul, 528 State Street, New Albany, Indiana

Interpreted Potentiometric Map (December 6, 2013)

DATE: 2-17-14
 SCALE: As Shown
 PROJ NO.: 4350-12-152

FIGURE 7

DIGITALS

LTD. PHASE II ESA PHOTOGRAPHS

PHOTOGRAPHS TAKEN DURING HITCH N HAUL PHASE II (12/04/2013)



Photo 1

Southeast End of Property Facing
West Toward SB-03



Photo 2

South Central Portion of Property
Facing West Toward SB-04



Photo 3

Facing East Toward SB-10

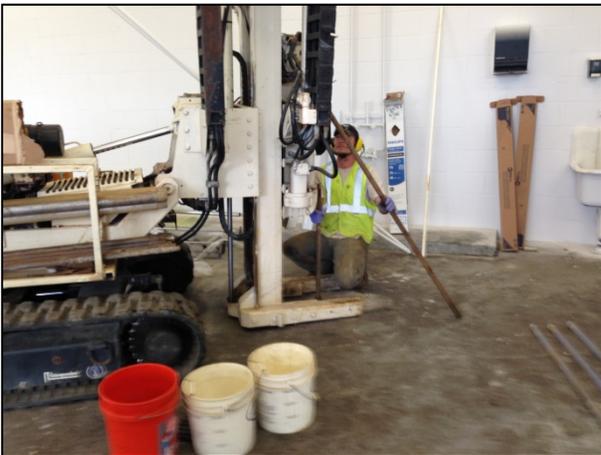


Photo 4

Facing North Toward SB-11



Photo 5

Facing East Toward SB-11



Photo 6

SB-05 Temporary Monitoring Well

APPENDIX A

SOIL BORING LOGS



BORING LOG

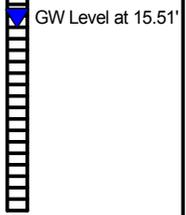
BORING NAME: SB-01

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: South of Building
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Asphalt & Gravel Subbase:		0.5	0.0	50			0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		5.0	0.0	50			5.0	
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors		10.0	0.0	50			10.0	
- beyond 15' sand is fine to medium, wet and color change to 10 YR 3/4 dark yellowish brown		15.0	0.0	50			15.0	
- End of boring 20.0'		20.0	0.0	50	(14-15')		20.0	
							25.0	
							30.0	





BORING LOG

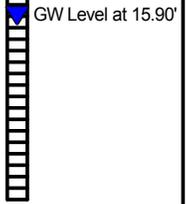
BORING NAME: SB-02

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: South Central End of Parking Lot
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Asphalt & Gravel Subbase:		0.5	0.0				0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		3.0	0.0	60				
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors			0.0	60			5.0	
			0.0				10.0	
			0.0	50			15.0	
			0.0	50	(14-15')		20.0	
- beyond 15' sand is fine to medium, wet and color change to 10 YR 3/4 dark yellowish brown								
- End of boring 20.0'		20.0						
							25.0	
							30.0	





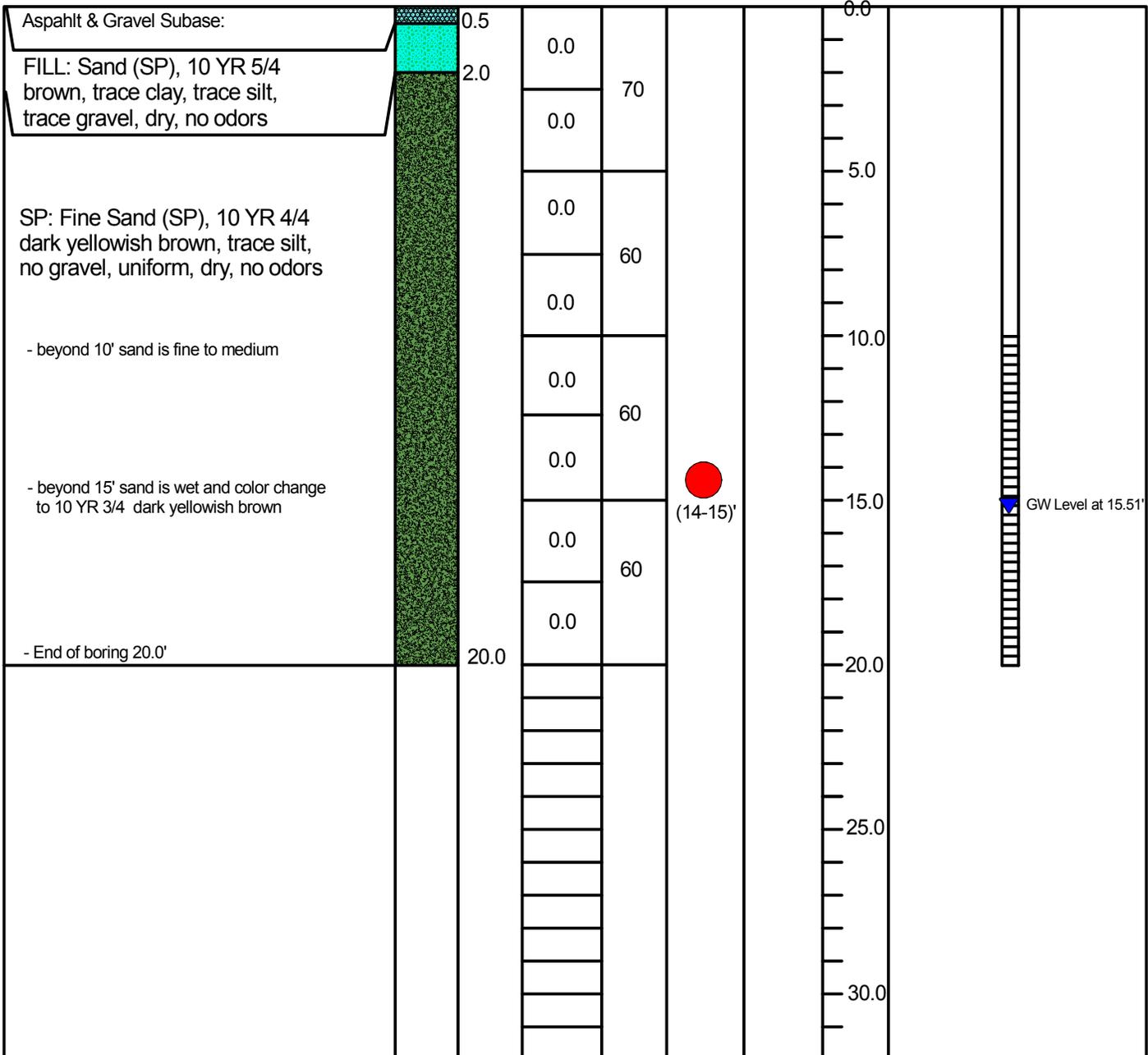
BORING LOG

BORING NAME: SB-04

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: West Central End of Parking Lot
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
Temporary Monitoring Well								





BORING LOG

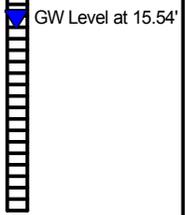
BORING NAME: SB-05

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Northwest Corner of Subject Property
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Grass and Topsoil:		0.5					0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		2.0	0.0	80				
			0.0				5.0	
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors			0.0	50				
			0.0				10.0	
- beyond 10' sand is fine to medium			0.0	50				
- at 12.5' black ring			0.0				15.0	
- beyond 15' sand is wet and color change to 10 YR 3/4 dark yellowish brown			0.0	60	(14-15')			
			0.0				20.0	
- End of boring 20.0'		20.0						
							25.0	
							30.0	





BORING LOG

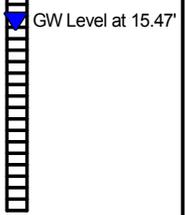
BORING NAME: SB-06

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: North Central End Near Former UST
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Asphalt & Gravel Subbase:		0.5	0.0	60			0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		4.0	0.0	60			5.0	
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors - black ring at 10-12 feet with odor - beyond 15' sand is fine to medium, wet and color change to 10 YR 3/4 dark yellowish brown - End of boring 20.0'		10.0	0.0	60	 (10-11)'		10.0	
		12.0	123.0	60			15.0	
		14.0	0.0	60			17.5	
		16.0	0.0	60			20.0	
		20.0	0.0	60			22.5	
							25.0	
							30.0	





BORING LOG

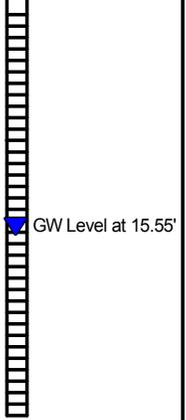
BORING NAME: SB-07

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: North Central Lot South of Former UST
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Asphalt & Gravel Subbase:		0.5	0.0				0.0	
FILL: Sand (SP), 10 YR 2/1 black, trace ash, trace clay, trace silt, trace gravel, dry, no odors - white sand ring at 4 feet		6.0	0.0	100	● (4-5)'		5.0	
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors - beyond 12.5' sand is fine to medium - beyond 15' sand is wet and color change to 10 YR 3/4 dark yellowish brown		20.0	0.0	50			10.0	
			0.0	50			15.0	
			0.0	60			20.0	
- End of boring 20.0'			0.0				25.0	
							30.0	





BORING LOG

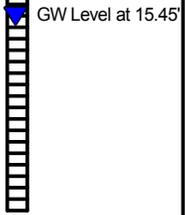
BORING NAME: SB-08

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Central Parking Lot
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Asphalt & Gravel Subase:		0.5	0.0				0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		2.0	0.0	80				
			0.0					
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors			0.0	60			5.0	
			0.0					
			0.0	60			10.0	
			0.0					
- beyond 10' sand is fine to medium			0.0	60			15.0	
			0.0					
- beyond 15' sand is wet and color change to 10 YR 3/4 dark yellowish brown			0.0	70	(14-15')		15.0	
			0.0					
- End of boring 20.0'		20.0					20.0	
							25.0	
							30.0	





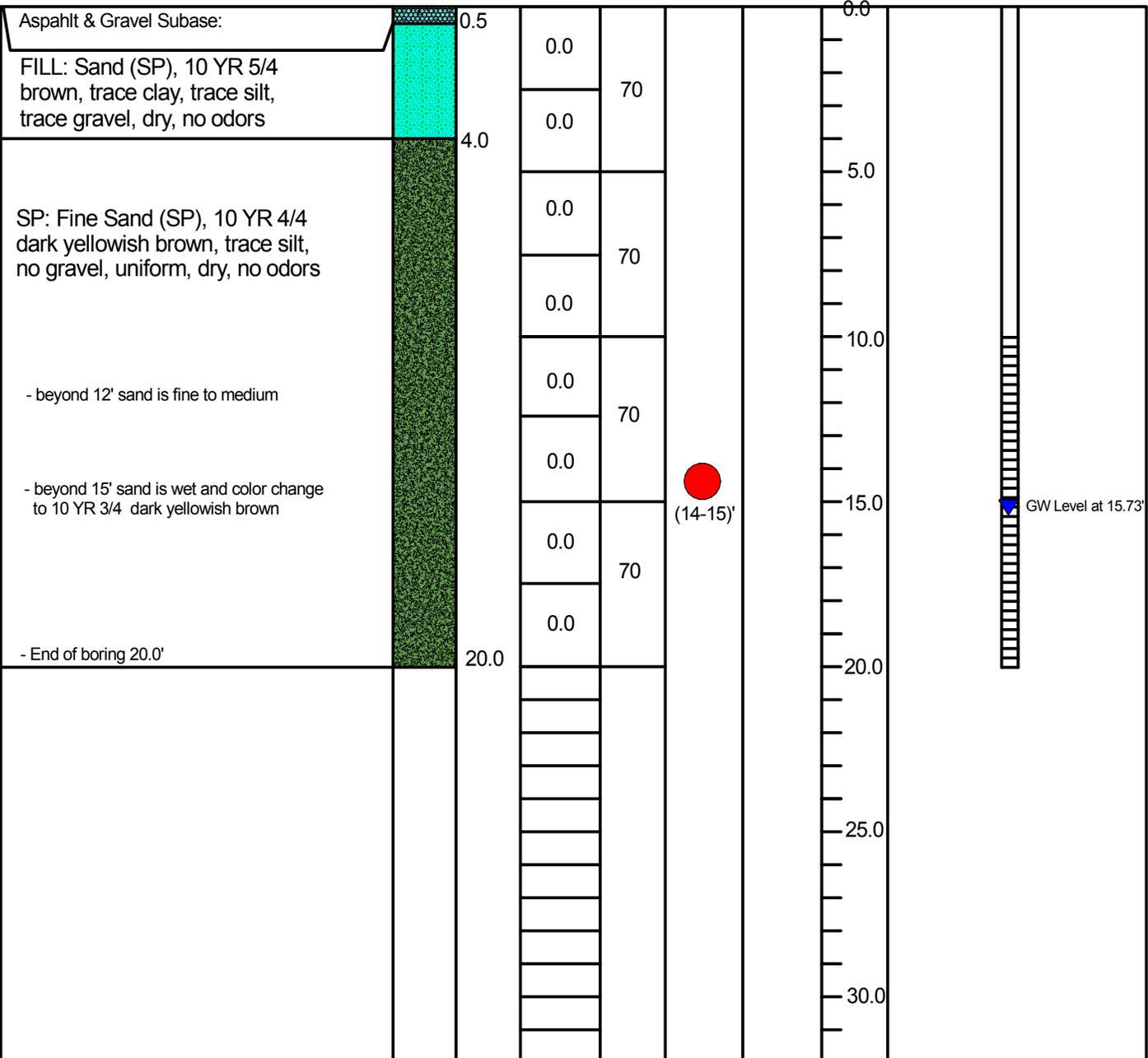
BORING LOG

BORING NAME: SB-09

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: West of Building Near Hydraulic Lift
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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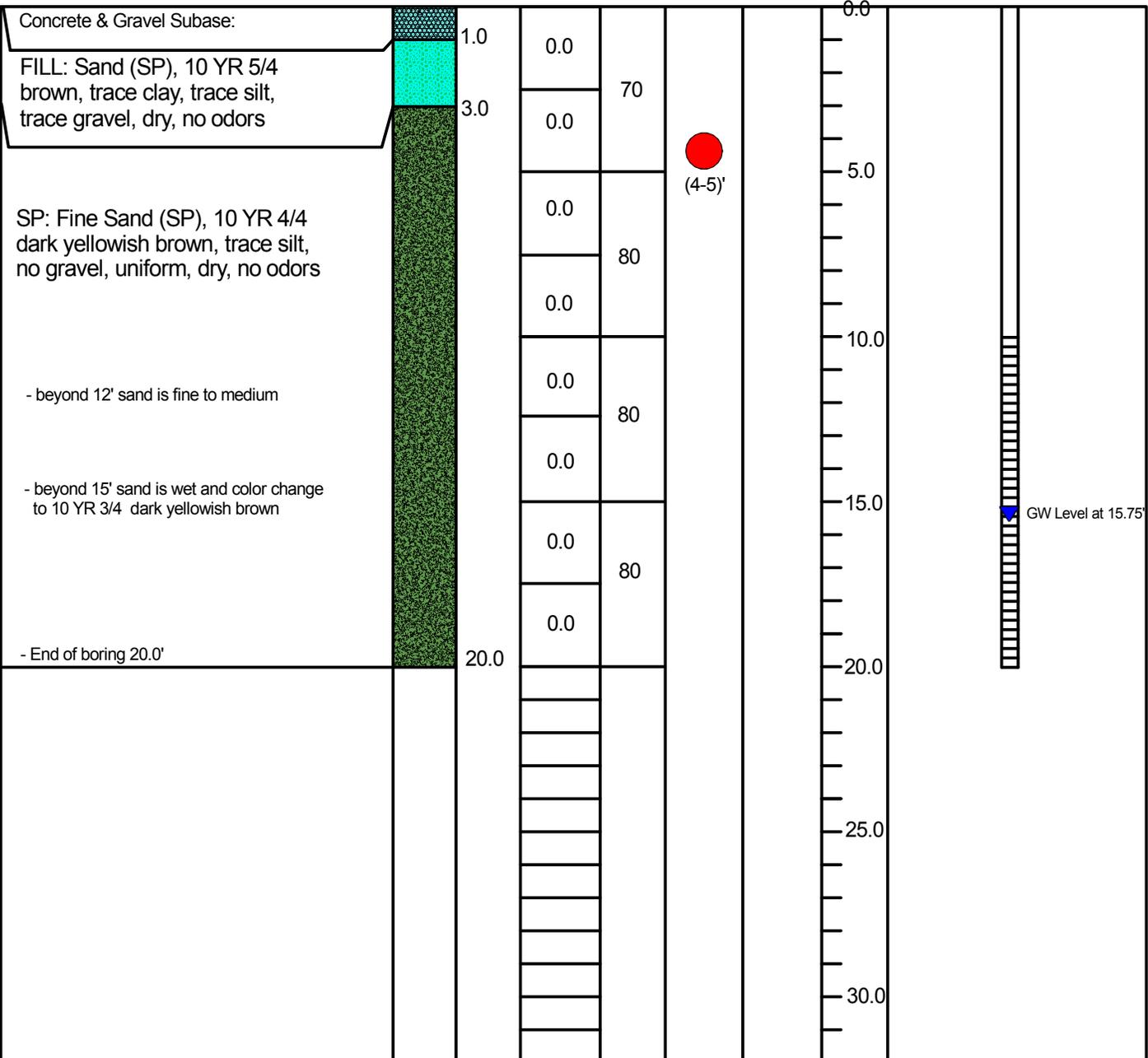
BORING LOG

BORING NAME: SB-10

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Inside Building SW Corner Near Hydraulic Lift
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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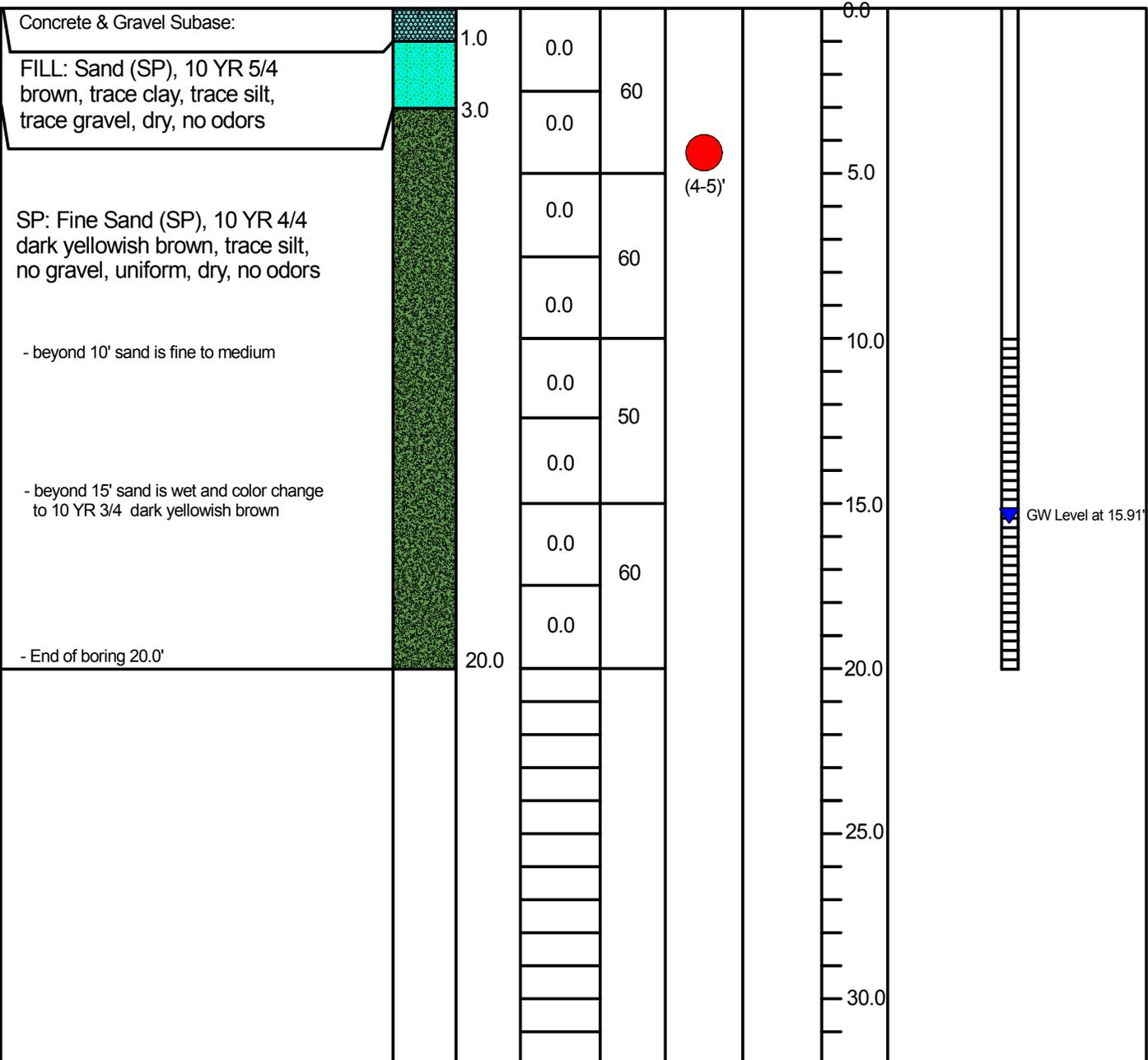
BORING LOG

BORING NAME: SB-11

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Inside Building SE Central Near Hydraulic Lift
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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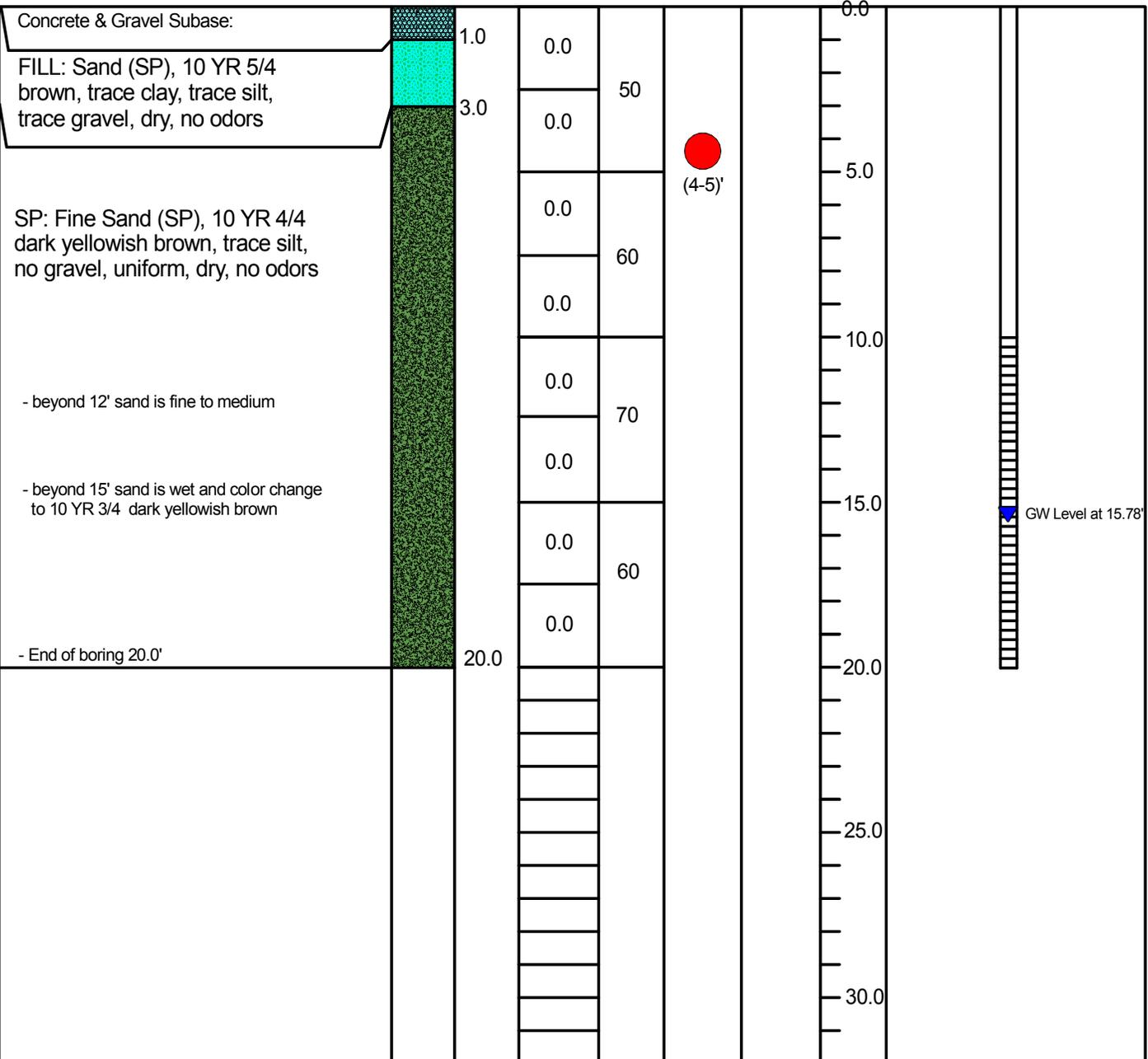
BORING LOG

BORING NAME: SB-12

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Inside Building W Central Near Hydraulic Lift
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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BORING LOG

BORING NAME: SB-13

PAGE 1 OF 1

SITE: Hitch & Haul
 PROJECT LOCATION: 528 State Street, New Albany, IN
 PROJECT NAME: Limited Subsurface Investigation
 DRILLING CONTRACTOR: SE Science, LLC
 BORING LOCATION: Inside Building SE Central Near Hydraulic Lift
 DRILLER: Nathan Ferree

DATE BEGAN: 12/04/13
 DATE FINISHED: 12/04/13
 DRILL EQUIP: Geoprobe model 6620DT
 DEPTH OF BORING: 20.0'
 FIELD ENGINEER: Jason Lougheed

Lithological Description	USCS Symbol	Stratum Depth (feet)	P.I.D. Headspace (ppm)	Recovery (%)	Sample Location	Sample ID	Depth (feet)	Well Description
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Concrete & Gravel Subase:		1.0	0.0				0.0	
FILL: Sand (SP), 10 YR 5/4 brown, trace clay, trace silt, trace gravel, dry, no odors		3.0	0.0	50				
SP: Fine Sand (SP), 10 YR 4/4 dark yellowish brown, trace silt, no gravel, uniform, dry, no odors - at 10' sand is moist - beyond 10' sand is fine to medium - beyond 15' sand is wet and color change to 10 YR 3/4 dark yellowish brown - End of boring 20.0'			0.0	50	 (4-5')		5.0	
			0.0	60			10.0	
			0.0	70			15.0	
			0.0				20.0	
							25.0	
							30.0	
								 GW Level at 15.76'

APPENDIX B

SOIL AND GROUNDWATER SAMPLING FORMS

FIELD SAMPLING REPORT	 <p>INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES</p> <hr/> <p>4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150</p>	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-01 & HH-GW-GP-1</u> Date <u>12/4/13</u> Time <u>8:45 AM</u>
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Soil Sample I.D. Number: HH-SB-GP-01 (14-15') Haz.? Yes X No Unknown
 Water Sample I.D. Number: HH-GW-GP-1 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine sand)
 Time: 10:00 AM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/6/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 9:10 AM Volume of Water Purged 1.1 Gal.
 Purge Date 12/6/13 Start Time 8:50 AM End Time 9:05 AM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.45' Depth to Ground Water 15.51'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.64	6.65	6.64	6.64		
Conductivity (us/cm)	0.675	0.676	0.673	0.670		
Dissolved Oxygen (mg/L)	3.04	2.42	2.20	2.19		
ORP (mV)	-9.6	-4.9	-2.8	-2.0		
Temperature (C)	16.15	15.87	15.63	15.50		
Time	8:50 AM	8:55 AM	9:00 AM	9:05 AM		
Date	12/6/13	12/6/13	12/6/13	12/6/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)
PID field calibrated against 100 ppmV isobutylene standard per manufacturers instructions (12/4/13)

**FIELD SAMPLING
REPORT**



INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES

**4350 SECURITY PKWY.
NEW ALBANY, INDIANA 47150**

Job Number 4350-12-152
 Job Name City of N.A. - Frmr Hitch & Haul
 Sampling Point
 (Location) HH-SB-GP-02 & HH-GW-GP-02
 Date 12/4/13 Time 10:15 AM

Soil Sample I.D. Number: HH-SB-GP-02 (14-15') Haz.? Yes X No Unknown
 Water Sample I.D. Number: HH-GW-GP-02 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine sand)
 Time: 10:30 AM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/6/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 8:30 AM Volume of Water Purged 1.2 Gal.
 Purge Date 12/6/13 Start Time 8:10 AM End Time 8:25 AM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.10' Depth to Ground Water 15.90'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.71	6.59	6.55	6.54		
Conductivity (us/cm)	0.705	0.708	0.710	0.710		
Dissolved Oxygen (mg/L)	6.87	5.80	5.55	5.46		
ORP (mV)	15.3	12.3	14.7	16.2		
Temperature (C)	16.61	17.49	17.60	17.66		
Time	8:10 AM	8:15 AM	9:00 AM	8:25 AM		
Date	12/6/13	12/6/13	12/6/13	12/6/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

Re-checked pH and ORP against disposal singlet standard packets.....cal. is confirmed (12/6/13).

FIELD SAMPLING REPORT	 <p>INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES</p> <hr/> <p>4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150</p>	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-03 & HH-GW-GP-03</u> Date <u>12/4/13</u> Time <u>10:45 AM</u>
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Soil Sample I.D. Number: HH-SB-GP-03 (14-15') Haz.? Yes X No Unknown
 Water Sample I.D. Number: HH-GW-GP-03 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine to medium sand)
 Time: 11:00 AM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 3:25 PM Volume of Water Purged 1.1 Gal.
 Purge Date 12/5/13 Start Time 3:05 PM End Time 3:20 PM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 19.90' Depth to Ground Water 15.44'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.67	6.67	6.65	6.66		
Conductivity (us/cm)	0.89	0.878	0.874	0.866		
Dissolved Oxygen (mg/L)	2.35	0.90	0.85	0.88		
ORP (mV)	-119.9	-110.0	-107.1	-103.4		
Temperature (C)	18.83	18.70	18.79	18.87		
Time	3:05 PM	3:10 PM	3:15 PM	3:20 PM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT	 <p>INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES</p> <hr/> <p>4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150</p>	<p>Job Number <u>4350-12-152</u></p> <p>Job Name <u>City of N.A. - Frmr Hitch & Haul</u></p> <p>Sampling Point (Location) <u>HH-SB-GP-04 & HH-GW-GP-04</u></p> <p>Date <u>12/4/13</u> Time <u>11:15 AM</u></p>
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Soil Sample I.D. Number: HH-SB-GP-04 (14-15') Haz.? Yes X No Unknown

Water Sample I.D. Number: HH-GW-GP-4 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel

Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine to medium sand)

Time: 11:30 AM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling

Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =

Time: 2:45 PM Volume of Water Purged 1.3 Gal.

Purge Date 12/5/13 Start Time 2:20 PM End Time 2:40 PM

Sampler Type & Materials Peristaltic pump and dedicated tubing.

Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 20.45' Depth to Ground Water 15.51'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.64	6.64	6.62	6.61	6.59	
Conductivity (us/cm)	0.892	0.884	0.887	0.874	0.872	
Dissolved Oxygen (mg/L)	2.65	2.02	1.83	1.65	1.71	
ORP (mV)	-62.1	-64.9	-62.4	-56.4	-50.1	
Temperature (C)	19.80	19.45	19.52	19.56	19.57	
Time	2:20 PM	2:25 PM	2:30 PM	2:35 PM	2:40 PM	
Date	12/5/13	12/5/13	12/5/13	12/5/13	12/5/13	

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Lougheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

**FIELD SAMPLING
REPORT**



INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES

**4350 SECURITY PKWY.
NEW ALBANY, INDIANA 47150**

Job Number 4350-12-152
 Job Name City of N.A. - Frmr Hitch & Haul
 Sampling Point
 (Location) HH-SB-GP-05 & HH-GW-GP-05
 Date 12/4/13 Time 11:45 AM

Soil Sample I.D. Number: HH-SB-GP-05 (14-15') Haz.? Yes X No Unknown
 Water Sample I.D. Number: HH-GW-GP-05 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine to medium sand)
 Time: 12:00 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 2:00 PM Volume of Water Purged 1.1 Gal.
 Purge Date 12/5/13 Start Time 1:40 PM End Time 1:55 PM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.00' Depth to Ground Water 15.54'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	3	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	12	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.59	6.62	6.60	6.59		
Conductivity (us/cm)	0.931	0.956	0.965	0.970		
Dissolved Oxygen (mg/L)	1.99	1.87	1.88	1.69		
ORP (mV)	-60.8	-70.4	-62.3	-81.5		
Temperature (C)	18.38	18.44	18.78	18.88		
Time	1:40 PM	1:45 PM	1:50 PM	1:55 PM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

Matrix Spike and Matrix Spike Duplicate soil samples taken from this location.

**FIELD SAMPLING
REPORT**



INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES

**4350 SECURITY PKWY.
NEW ALBANY, INDIANA 47150**

Job Number 4350-12-152
 Job Name City of N.A. - Frmr Hitch & Haul
 Sampling Point
 (Location) HH-SB-GP-06 & HH-GW-GP-06
 Date 12/4/13 Time 12:15 PM

Soil Sample I.D. Number: HH-SB-GP-06 (10-11') Haz.? Yes X No Unknown
 Water Sample I.D. Number: HH-GW-GP-6 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 10' - 11' bgs (fine sand / black ring with odor)
 Time: 12:30 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 1:10 PM Volume of Water Purged 1.1 Gal.
 Purge Date 12/5/13 Start Time 12:50 PM End Time 1:05 PM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.85' Depth to Ground Water 15.47'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.49	6.47	6.46	6.46		
Conductivity (us/cm)	2.239	2.368	2.361	2.337		
Dissolved Oxygen (mg/L)	2.93	1.44	1.34	1.30		
ORP (mV)	-42.1	-88.5	-94.9	-83.8		
Temperature (C)	18.24	19.16	18.99	18.99		
Time	12:50 PM	12:55 PM	1:00 PM	1:05 PM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT		INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES <hr/> 4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-07 & HH-GW-GP-07</u> Date <u>12/4/13</u> Time <u>12:45 PM</u>
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Soil Sample I.D. Number: HH-SB-GP-07 (4-5) Haz.? Yes No Unknown
Water Sample I.D. Number: HH-GW-GP-07 Haz.? Yes No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
Sampling Date: 12/4/13 Sampling Depth 4' - 5' bgs (sand / white sand ring @ 4')
Time: 1:00 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
Sampling Date: 12/05/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) = _____
Time: 12:10 PM Volume of Water Purged 1.2 Gal.
Purge Date 12/5/13 Start Time 11:50 AM End Time 12:05 PM
Sampler Type & Materials Peristaltic pump and dedicated tubing.
Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 19.85' Depth to Ground Water 15.55'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.56	6.53	6.52	6.49		
Conductivity (us/cm)	0.778	0.767	0.764	0.765		
Dissolved Oxygen (mg/L)	2.70	2.61	2.45	2.41		
ORP (mV)	-67.9	-65.0	-65.4	-64.3		
Temperature (C)	18.57	18.63	18.68	18.68		
Time	11:50 AM	11:55 AM	12:00 PM	12:05 PM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT		INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES <hr/> 4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-08 & HH-GW-GP-08</u> Date <u>12/4/13</u> Time <u>1:15 PM</u>
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Soil Sample I.D. Number: HH-SB-GP-08 (14-15') Haz.? Yes X No Unknown
Water Sample I.D. Number: HH-GW-GP-08 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine to medium sand)
Time: 1:30 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
Time: 11:35 AM Volume of Water Purged 1.1 Gal.
Purge Date 12/5/13 Start Time 11:15 AM End Time 11:30 AM
Sampler Type & Materials Peristaltic pump and dedicated tubing.
Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 20.65' Depth to Ground Water 15.45'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.70	6.67	6.61	6.60		
Conductivity (us/cm)	1.057	1.084	1.097	1.096		
Dissolved Oxygen (mg/L)	1.97	1.45	1.50	1.35		
ORP (mV)	-47.8	-64.0	-67.0	-65.6		
Temperature (C)	19.75	19.40	19.50	19.38		
Time	11:15 AM	11:20 AM	11:25 AM	11:30 AM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

**FIELD SAMPLING
REPORT**



INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES

**4350 SECURITY PKWY.
NEW ALBANY, INDIANA 47150**

Job Number 4350-12-152
 Job Name City of N.A. - Frmr Hitch & Haul
 Sampling Point
 (Location) HH-SB-GP-09 & HH-GW-GP-09
 Date 12/4/13 Time 1:30 PM

Soil Sample I.D. Number: HH-SB-GP-09 (14-15') Haz.? Yes No Unknown
 Water Sample I.D. Number: HH-GW-GP-09 Haz.? Yes No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 14' - 15' bgs (fine to medium sand)
 Time: 1:45 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
 Time: 10:55 AM Volume of Water Purged 1.3 Gal.
 Purge Date 12/5/13 Start Time 10:35 AM End Time 10:50 AM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.00' Depth to Ground Water 15.73'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.75	6.72	6.67	6.65		
Conductivity (us/cm)	0.941	1.101	1.107	1.104		
Dissolved Oxygen (mg/L)	4.95	3.57	3.36	3.47		
ORP (mV)	78.4	30.7	24.1	22.6		
Temperature (C)	18.87	19.04	18.94	18.97		
Time	10:35 AM	10:40 AM	10:45 AM	10:50 AM		
Date	12/5/13	12/5/13	12/5/13	12/5/13		

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT		INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES <hr/> 4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-10 & HH-GW-GP-10</u> Date <u>12/4/13</u> Time <u>1:45 PM</u>
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Soil Sample I.D. Number: HH-SB-GP-10 (4-5) Haz.? Yes No Unknown
Water Sample I.D. Number: HH-GW-GP-10 Haz.? Yes No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
Sampling Date: 12/4/13 Sampling Depth 4' - 5' bgs (fine sand)
Time: 2:00 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
Sampling Date: 6-Dec Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) = _____
Time: 11:45 AM Volume of Water Purged 1.0 Gal.
Purge Date 12/6/13 Start Time 11:30 AM End Time 11:40 AM
Sampler Type & Materials Peristaltic pump and dedicated tubing.
Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 19.55' Depth to Ground Water 15.75'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	9	HCL	no	GW Sample (8260)
Amber Glass	100 ml	6	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	3	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.67	6.66	6.63			
Conductivity (us/cm)	0.732	0.734	0.730			
Dissolved Oxygen (mg/L)	3.75	3.43	3.41			
ORP (mV)	13.7	-3.6	6.4			
Temperature (C)	18.48	18.60	18.70			
Time	11:30 AM	11:35 AM	11:40 AM			
Date	12/6/13	12/6/13	12/6/13			

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

Matrix Spike and Matrix Spike Duplicate from this location - Groundwater

FIELD SAMPLING REPORT		INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES <hr/> 4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-11 & HH-GW-GP-11</u> Date <u>12/4/13</u> Time <u>2:00 PM</u>
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Soil Sample I.D. Number: HH-SB-GP-11 (4-5) Haz.? Yes X No Unknown
Water Sample I.D. Number: HH-GW-GP-11 Haz.? Yes X No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
Sampling Date: 12/4/13 Sampling Depth 4' - 5' bgs (fine sand)
Time: 2:15 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
Sampling Date: 12/6/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) =
Time: 10:55 AM Volume of Water Purged 1.0 Gal.
Purge Date 12/6/13 Start Time 10:40 AM End Time 10:50 AM
Sampler Type & Materials Peristaltic pump and dedicated tubing.
Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 20.20' Depth to Ground Water 15.91'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.23	6.27	6.21			
Conductivity (us/cm)	0.638	0.639	0.634			
Dissolved Oxygen (mg/L)	6.94	6.75	6.46			
ORP (mV)	107.3	99.4	95.3			
Temperature (C)	17.74	17.68	17.36			
Time	10:40 AM	10:45 AM	10:50 AM			
Date	12/6/13	12/6/13	12/6/13			

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment X Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT		INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES <hr/> 4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150	Job Number <u>4350-12-152</u> Job Name <u>City of N.A. - Frmr Hitch & Haul</u> Sampling Point (Location) <u>HH-SB-GP-12 & HH-GW-GP-12</u> Date <u>12/4/13</u> Time <u>2:15 PM</u>
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Soil Sample I.D. Number: HH-SB-GP-12 (4-5) Haz.? Yes No Unknown
Water Sample I.D. Number: HH-GW-GP-12 Haz.? Yes No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
Sampling Date: 12/4/13 Sampling Depth 4' - 5' bgs (fine sand)
Time: 2:30 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
Sampling Date: 12/6/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft² x 7.48 x 5) = _____
Time: 10:15 AM Volume of Water Purged 1.1 Gal.
Purge Date 12/6/13 Start Time 10:00 AM End Time 10:10 AM
Sampler Type & Materials Peristaltic pump and dedicated tubing.
Sample Description 40 VOA (VOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)

Total Well Depth 20.95' Depth to Ground Water 15.78'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	3	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	1	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	4	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.68	6.65	6.63			
Conductivity (us/cm)	0.734	0.732	0.731			
Dissolved Oxygen (mg/L)	3.11	2.90	2.93			
ORP (mV)	-36.1	-29.3	-23.4			
Temperature (C)	17.70	18.03	18.04			
Time	10:00 AM	10:05 AM	10:10 AM			
Date	12/6/13	12/6/13	12/6/13			

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

FIELD SAMPLING REPORT	 <p>INNOVATIVE CORRECTIVE ACTION & FIELD SERVICES</p> <hr/> <p>4350 SECURITY PKWY. NEW ALBANY, INDIANA 47150</p>	<p>Job Number <u>4350-12-152</u></p> <p>Job Name <u>City of N.A. - Frmr Hitch & Haul</u></p> <p>Sampling Point (Location) <u>HH-SB-GP-13 & HH-GW-GP-13</u></p> <p>Date <u>12/4/13</u> Time <u>2:45 PM</u></p>
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Soil Sample I.D. Number: HH-SB-GP-13 (4-5) Haz.? Yes No Unknown
 Water Sample I.D. Number: HH-GW-GP-13 Haz.? Yes No Unknown

Soil Sampling Data:

Sampler Type & Material DPT - Acetate liner, discrete sampling barrel
 Sampling Date: 12/4/13 Sampling Depth 4' - 5' bgs (fine sand)
 Time: 3:00 PM Sample Description VOC's 8260, PAH's 8270, Lead

Groundwater Sampling Data:

Purge Method & Materials Low Flow Sampling
 Sampling Date: 12/5/13 Volume of Water in Well & Sand Pack (2" I.D): ((-) x .0218 x _____ ft³ x 7.48 x 5) = _____
 Time: 9:40 AM Volume of Water Purged 1.6 Gal.
 Purge Date 12/5/13 Start Time 8:55 AM End Time 9:40 AM
 Sampler Type & Materials Peristaltic pump and dedicated tubing.
 Sample Description 40 VOA (CVOC's 8260), 100 mL amber (PAH's 8270), 250 mL plastic (6010 metals, Pb)
 Total Well Depth 20.15 Depth to Ground Water 15.76'

Container		Number	Preservative/ Preparation	Filtering	Comments
Type	Volume				
VOA	40 ml	6	HCL	no	GW Sample (8260)
Amber Glass	100 ml	2	Unpreserved	no	GW Sample (8270)
Plastic	250 ml	1	HNO3	no	GW Sample (6010)
Clear Jar	4 oz.	2	Unpreserved	n/a	Soil Sample (8270 & 6010)
Terra Core Kit	40 ml vials	8	DI and Methanol	n/a	Soil Sample (8260/5035)

FIELD MEASUREMENTS

Parameter	1st Reading	2nd Reading	3rd Reading	4th Reading	5th Reading	6th Reading
pH	6.49	6.49	6.49	6.45	6.49	6.48
Conductivity (us/cm)	0.711	0.71	0.709	0.710	0.710	0.710
Dissolved Oxygen (mg/L)	1.54	1.82	1.85	2.10	2.12	2.06
ORP (mV)	3.8	11.8	25.1	31.4	33.8	36.7
Temperature (C)	18.76	18.73	18.73	18.71	18.70	18.76
Time	8:55 AM	9:05 AM	9:10 AM	9:30 AM	9:35 AM	9:40 AM
Date	12/5/13	12/5/13	12/5/13	12/5/13	12/5/13	12/5/13

GENERAL INFORMATION

Weather Cloudy Air Temp. 40's

Samples Collected By Nathan Ferree (GW) & Jason Loughheed (Soil)

Special Handling Transported in ice packed cooler

Mode of Shipment Car/Truck Bus Plane Commer. Veh.

Comments (Calibrations, Field Modifications, Instrument Problems)

Water quality meter received calibrated from rental facility. Re-checked pH and ORP against disposal singlet standard packets..cal. is confirmed (12/5/13)

Groundwater sample duplicate taken from this location.

Soil sample duplicate taken from this location.

APPENDIX C

**LABORATORY CERTIFICATES OF ANALYSIS
AND CHAINS-OF-CUSTODY**

December 19, 2013

Mr. Jason Swearingen
Specialty Earth Sciences
4350 Security Parkway
New Albany, IN 47150

RE: Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Dear Mr. Swearingen:

Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mark Davis

mark.davis@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268

Illinois Certification #: 200074

Indiana Certification #: C-49-06

Kansas Certification #: E-10247

Kentucky Certification #: 0042

Louisiana/NELAC Certification #: 04076

Ohio VAP Certification #: 101170-0

Pennsylvania Certification #: 68-04991

West Virginia Certification #: 330

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SAMPLE SUMMARY

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5090811001	HH-SB-GP-01 (14-15')	Solid	12/04/13 10:00	12/05/13 09:58
5090811002	HH-SB-GP-02 (14-15')	Solid	12/04/13 10:30	12/05/13 09:58
5090811003	HH-SB-GP-03 (14-15')	Solid	12/04/13 11:00	12/05/13 09:58
5090811004	HH-SB-GP-04 (14-15')	Solid	12/04/13 11:30	12/05/13 09:58
5090811005	HH-SB-GP-05 (14-15')	Solid	12/04/13 12:00	12/05/13 09:58
5090811006	HH-SB-GP-06 (10-11')	Solid	12/04/13 12:30	12/05/13 09:58
5090811007	HH-SB-GP-07 (4-5')	Solid	12/04/13 13:00	12/05/13 09:58
5090811008	HH-SB-GP-08 (14-15')	Solid	12/04/13 13:30	12/05/13 09:58
5090811009	HH-SB-GP-09 (14-15')	Solid	12/04/13 13:45	12/05/13 09:58
5090811010	HH-SB-GP-10 (4-5')	Solid	12/04/13 14:00	12/05/13 09:58
5090811011	HH-SB-GP-11 (4-5')	Solid	12/04/13 14:15	12/05/13 09:58
5090811012	HH-SB-GP-12 (4-5')	Solid	12/04/13 14:30	12/05/13 09:58
5090811013	HH-SB-GP-13 (4-5')	Solid	12/04/13 15:00	12/05/13 09:58
5090811014	DUPLICATE	Solid	12/04/13 08:00	12/05/13 09:58
5090811015	TRIP BLANK	Solid	12/04/13 10:00	12/05/13 09:58

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SAMPLE ANALYTE COUNT

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5090811001	HH-SB-GP-01 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	18
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811002	HH-SB-GP-02 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811003	HH-SB-GP-03 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811004	HH-SB-GP-04 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811005	HH-SB-GP-05 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811006	HH-SB-GP-06 (10-11')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811007	HH-SB-GP-07 (4-5')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811008	HH-SB-GP-08 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811009	HH-SB-GP-09 (14-15')	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811010	HH-SB-GP-10 (4-5')	EPA 6010	FRW	1

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SAMPLE ANALYTE COUNT

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5090811011	HH-SB-GP-11 (4-5')	EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
		EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
5090811012	HH-SB-GP-12 (4-5')	EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
		EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
5090811013	HH-SB-GP-13 (4-5')	ASTM D2974-87	WDB	1
		EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
5090811014	DUPLICATE	EPA 6010	FRW	1
		EPA 8270 by SIM	CEM	20
		EPA 8260	GRM	73
		ASTM D2974-87	WDB	1
		EPA 8260	GRM	73
5090811015	TRIP BLANK	EPA 8260	GRM	73

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-01 (14-15') Lab ID: 5090811001 Collected: 12/04/13 10:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	7.0	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:04	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	83-32-9	
Acenaphthylene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	208-96-8	
Anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	207-08-9	
Chrysene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	53-70-3	
Fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	206-44-0	
Fluorene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	91-57-6	
Naphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	91-20-3	
Phenanthrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	85-01-8	
Pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 08:52	129-00-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.1	1		12/12/13 23:33	67-64-1	
Acrolein	ND	ug/kg	86.1	1		12/12/13 23:33	107-02-8	
Acrylonitrile	ND	ug/kg	86.1	1		12/12/13 23:33	107-13-1	
Benzene	ND	ug/kg	4.3	1		12/12/13 23:33	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/12/13 23:33	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/12/13 23:33	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/12/13 23:33	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		12/12/13 23:33	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.5	1		12/12/13 23:33	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		12/12/13 23:33	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/12/13 23:33	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/12/13 23:33	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		12/12/13 23:33	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/12/13 23:33	95-49-8	
4-Chlorotoluene	ND	ug/kg	4.3	1		12/12/13 23:33	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		12/12/13 23:33	124-48-1	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-01 (14-15') Lab ID: 5090811001 Collected: 12/04/13 10:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/12/13 23:33	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/12/13 23:33	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.1	1		12/12/13 23:33	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		12/12/13 23:33	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/12/13 23:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/12/13 23:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/12/13 23:33	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/12/13 23:33	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/12/13 23:33	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/12/13 23:33	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/12/13 23:33	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/12/13 23:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/12/13 23:33	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.1	1		12/12/13 23:33	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/12/13 23:33	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		12/12/13 23:33	110-54-3	N2
2-Hexanone	ND	ug/kg	86.1	1		12/12/13 23:33	591-78-6	
Iodomethane	ND	ug/kg	86.1	1		12/12/13 23:33	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/12/13 23:33	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/12/13 23:33	99-87-6	
Methylene Chloride	ND	ug/kg	17.2	1		12/12/13 23:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.5	1		12/12/13 23:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/12/13 23:33	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/12/13 23:33	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/12/13 23:33	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/12/13 23:33	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/12/13 23:33	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/12/13 23:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/12/13 23:33	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/12/13 23:33	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/12/13 23:33	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/12/13 23:33	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/12/13 23:33	108-67-8	
Vinyl acetate	ND	ug/kg	86.1	1		12/12/13 23:33	108-05-4	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-01 (14-15') **Lab ID: 5090811001** Collected: 12/04/13 10:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Vinyl chloride	ND	ug/kg	4.3	1		12/12/13 23:33	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/12/13 23:33	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %.		85-118	1		12/12/13 23:33	1868-53-7	
Toluene-d8 (S)	97 %.		71-128	1		12/12/13 23:33	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		56-144	1		12/12/13 23:33	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.7 %		0.10	1		12/10/13 08:01		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-02 (14-15') Lab ID: 5090811002 Collected: 12/04/13 10:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	6.8	mg/kg	0.98	1	12/07/13 09:08	12/09/13 12:06	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	83-32-9	
Acenaphthylene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	208-96-8	
Anthracene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	207-08-9	
Chrysene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	53-70-3	
Fluoranthene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	206-44-0	
Fluorene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	91-57-6	
Naphthalene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	91-20-3	
Phenanthrene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	85-01-8	
Pyrene	ND	ug/kg	5.6	1	12/06/13 12:42	12/09/13 09:10	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	88 %		38-110	1	12/06/13 12:42	12/09/13 09:10	321-60-8	
p-Terphenyl-d14 (S)	74 %		32-111	1	12/06/13 12:42	12/09/13 09:10	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	87.1	1		12/13/13 00:08	67-64-1	
Acrolein	ND	ug/kg	87.1	1		12/13/13 00:08	107-02-8	
Acrylonitrile	ND	ug/kg	87.1	1		12/13/13 00:08	107-13-1	
Benzene	ND	ug/kg	4.4	1		12/13/13 00:08	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		12/13/13 00:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		12/13/13 00:08	75-27-4	
Bromoform	ND	ug/kg	4.4	1		12/13/13 00:08	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		12/13/13 00:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.8	1		12/13/13 00:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		12/13/13 00:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		12/13/13 00:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	75-00-3	
Chloroform	ND	ug/kg	4.4	1		12/13/13 00:08	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		12/13/13 00:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/13/13 00:08	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-02 (14-15') Lab ID: 5090811002 Collected: 12/04/13 10:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.4	1		12/13/13 00:08	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		12/13/13 00:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/13/13 00:08	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/13/13 00:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.1	1		12/13/13 00:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		12/13/13 00:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/13/13 00:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/13/13 00:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/13/13 00:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/13/13 00:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/13/13 00:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/13/13 00:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/13/13 00:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/13/13 00:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/13/13 00:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	87.1	1		12/13/13 00:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/13/13 00:08	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		12/13/13 00:08	110-54-3	N2
2-Hexanone	ND	ug/kg	87.1	1		12/13/13 00:08	591-78-6	
Iodomethane	ND	ug/kg	87.1	1		12/13/13 00:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/13/13 00:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/13/13 00:08	99-87-6	
Methylene Chloride	ND	ug/kg	17.4	1		12/13/13 00:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.8	1		12/13/13 00:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/13/13 00:08	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/13/13 00:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/13/13 00:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/13/13 00:08	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/13/13 00:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/13/13 00:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/13/13 00:08	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/13/13 00:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/13/13 00:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/13/13 00:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-02 (14-15') Lab ID: 5090811002 Collected: 12/04/13 10:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/13/13 00:08	108-67-8	
Vinyl acetate	ND	ug/kg	87.1	1		12/13/13 00:08	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		12/13/13 00:08	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/13/13 00:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %.		85-118	1		12/13/13 00:08	1868-53-7	
Toluene-d8 (S)	97 %.		71-128	1		12/13/13 00:08	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		56-144	1		12/13/13 00:08	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.2 %		0.10	1		12/10/13 08:01		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-03 (14-15') Lab ID: 5090811003 Collected: 12/04/13 11:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	6.6	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:12	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	83-32-9	
Acenaphthylene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	208-96-8	
Anthracene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	207-08-9	
Chrysene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	53-70-3	
Fluoranthene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	206-44-0	
Fluorene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	91-57-6	
Naphthalene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	91-20-3	
Phenanthrene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	85-01-8	
Pyrene	ND	ug/kg	5.3	1	12/06/13 12:42	12/09/13 09:28	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82 %		38-110	1	12/06/13 12:42	12/09/13 09:28	321-60-8	
p-Terphenyl-d14 (S)	84 %		32-111	1	12/06/13 12:42	12/09/13 09:28	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	89.4	1		12/14/13 07:58	67-64-1	
Acrolein	ND	ug/kg	89.4	1		12/14/13 07:58	107-02-8	
Acrylonitrile	ND	ug/kg	89.4	1		12/14/13 07:58	107-13-1	
Benzene	ND	ug/kg	4.5	1		12/14/13 07:58	71-43-2	
Bromobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.5	1		12/14/13 07:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	1		12/14/13 07:58	75-27-4	
Bromoform	ND	ug/kg	4.5	1		12/14/13 07:58	75-25-2	
Bromomethane	ND	ug/kg	4.5	1		12/14/13 07:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.4	1		12/14/13 07:58	78-93-3	
n-Butylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	98-06-6	
Carbon disulfide	ND	ug/kg	8.9	1		12/14/13 07:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1		12/14/13 07:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	108-90-7	
Chloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	75-00-3	
Chloroform	ND	ug/kg	4.5	1		12/14/13 07:58	67-66-3	
Chloromethane	ND	ug/kg	4.5	1		12/14/13 07:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.5	1		12/14/13 07:58	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-03 (14-15') Lab ID: 5090811003 Collected: 12/04/13 11:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.5	1		12/14/13 07:58	106-43-4	
Dibromochloromethane	ND	ug/kg	4.5	1		12/14/13 07:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.5	1		12/14/13 07:58	106-93-4	
Dibromomethane	ND	ug/kg	4.5	1		12/14/13 07:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	89.4	1		12/14/13 07:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.5	1		12/14/13 07:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.5	1		12/14/13 07:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/14/13 07:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1		12/14/13 07:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	1		12/14/13 07:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.5	1		12/14/13 07:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.5	1		12/14/13 07:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.5	1		12/14/13 07:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/14/13 07:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	1		12/14/13 07:58	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	89.4	1		12/14/13 07:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.5	1		12/14/13 07:58	87-68-3	
n-Hexane	ND	ug/kg	4.5	1		12/14/13 07:58	110-54-3	N2
2-Hexanone	ND	ug/kg	89.4	1		12/14/13 07:58	591-78-6	
Iodomethane	ND	ug/kg	89.4	1		12/14/13 07:58	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1		12/14/13 07:58	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.5	1		12/14/13 07:58	99-87-6	
Methylene Chloride	ND	ug/kg	17.9	1		12/14/13 07:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.4	1		12/14/13 07:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	1		12/14/13 07:58	1634-04-4	
Naphthalene	ND	ug/kg	4.5	1		12/14/13 07:58	91-20-3	
n-Propylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	103-65-1	
Styrene	ND	ug/kg	4.5	1		12/14/13 07:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1		12/14/13 07:58	127-18-4	
Toluene	ND	ug/kg	4.5	1		12/14/13 07:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1		12/14/13 07:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	1		12/14/13 07:58	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1		12/14/13 07:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.5	1		12/14/13 07:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.5	1		12/14/13 07:58	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-03 (14-15') **Lab ID: 5090811003** Collected: 12/04/13 11:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1		12/14/13 07:58	108-67-8	
Vinyl acetate	ND	ug/kg	89.4	1		12/14/13 07:58	108-05-4	
Vinyl chloride	ND	ug/kg	4.5	1		12/14/13 07:58	75-01-4	
Xylene (Total)	ND	ug/kg	8.9	1		12/14/13 07:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102 %.		85-118	1		12/14/13 07:58	1868-53-7	
Toluene-d8 (S)	98 %.		71-128	1		12/14/13 07:58	2037-26-5	
4-Bromofluorobenzene (S)	99 %.		56-144	1		12/14/13 07:58	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	7.0 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-04 (14-15') Lab ID: 5090811004 Collected: 12/04/13 11:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	7.7	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:14	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	83-32-9	
Acenaphthylene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	208-96-8	
Anthracene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	207-08-9	
Chrysene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	53-70-3	
Fluoranthene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	206-44-0	
Fluorene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	91-57-6	
Naphthalene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	91-20-3	
Phenanthrene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	85-01-8	
Pyrene	ND	ug/kg	5.8	1	12/06/13 12:42	12/09/13 09:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	82 %		38-110	1	12/06/13 12:42	12/09/13 09:45	321-60-8	
p-Terphenyl-d14 (S)	87 %		32-111	1	12/06/13 12:42	12/09/13 09:45	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	92.1	1		12/14/13 08:32	67-64-1	
Acrolein	ND	ug/kg	92.1	1		12/14/13 08:32	107-02-8	
Acrylonitrile	ND	ug/kg	92.1	1		12/14/13 08:32	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/14/13 08:32	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/14/13 08:32	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/14/13 08:32	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/14/13 08:32	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/14/13 08:32	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.0	1		12/14/13 08:32	78-93-3	
n-Butylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	98-06-6	
Carbon disulfide	ND	ug/kg	9.2	1		12/14/13 08:32	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/14/13 08:32	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/14/13 08:32	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/14/13 08:32	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/14/13 08:32	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-04 (14-15') Lab ID: 5090811004 Collected: 12/04/13 11:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.6	1		12/14/13 08:32	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/14/13 08:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/14/13 08:32	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/14/13 08:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	92.1	1		12/14/13 08:32	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/14/13 08:32	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/14/13 08:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/14/13 08:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/14/13 08:32	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/14/13 08:32	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/14/13 08:32	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/14/13 08:32	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/14/13 08:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/14/13 08:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/14/13 08:32	10061-02-6	
Ethylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	100-41-4	
Ethyl methacrylate	ND	ug/kg	92.1	1		12/14/13 08:32	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/14/13 08:32	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/14/13 08:32	110-54-3	N2
2-Hexanone	ND	ug/kg	92.1	1		12/14/13 08:32	591-78-6	
Iodomethane	ND	ug/kg	92.1	1		12/14/13 08:32	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.6	1		12/14/13 08:32	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.6	1		12/14/13 08:32	99-87-6	
Methylene Chloride	ND	ug/kg	18.4	1		12/14/13 08:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.0	1		12/14/13 08:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/14/13 08:32	1634-04-4	
Naphthalene	ND	ug/kg	4.6	1		12/14/13 08:32	91-20-3	
n-Propylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	103-65-1	
Styrene	ND	ug/kg	4.6	1		12/14/13 08:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/14/13 08:32	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/14/13 08:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/14/13 08:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/14/13 08:32	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/14/13 08:32	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/14/13 08:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/14/13 08:32	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: **HH-SB-GP-04 (14-15')** Lab ID: **5090811004** Collected: 12/04/13 11:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.6	1		12/14/13 08:32	108-67-8	
Vinyl acetate	ND	ug/kg	92.1	1		12/14/13 08:32	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/14/13 08:32	75-01-4	
Xylene (Total)	ND	ug/kg	9.2	1		12/14/13 08:32	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %.		85-118	1		12/14/13 08:32	1868-53-7	
Toluene-d8 (S)	96 %.		71-128	1		12/14/13 08:32	2037-26-5	
4-Bromofluorobenzene (S)	99 %.		56-144	1		12/14/13 08:32	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	13.5 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-05 (14-15') Lab ID: 5090811005 Collected: 12/04/13 12:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	7.3 mg/kg		1.0	1	12/07/13 09:08	12/09/13 12:16	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	83-32-9	
Acenaphthylene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	208-96-8	
Anthracene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	120-12-7	
Benzo(a)anthracene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	56-55-3	
Benzo(a)pyrene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	207-08-9	
Chrysene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	53-70-3	
Fluoranthene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	206-44-0	
Fluorene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	193-39-5	
1-Methylnaphthalene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	90-12-0	N2
2-Methylnaphthalene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	91-57-6	
Naphthalene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	91-20-3	
Phenanthrene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	85-01-8	
Pyrene	ND ug/kg		5.5	1	12/06/13 12:42	12/09/13 10:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75 %.		38-110	1	12/06/13 12:42	12/09/13 10:03	321-60-8	
p-Terphenyl-d14 (S)	66 %.		32-111	1	12/06/13 12:42	12/09/13 10:03	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND ug/kg		87.9	1		12/14/13 09:06	67-64-1	
Acrolein	ND ug/kg		87.9	1		12/14/13 09:06	107-02-8	
Acrylonitrile	ND ug/kg		87.9	1		12/14/13 09:06	107-13-1	
Benzene	ND ug/kg		4.4	1		12/14/13 09:06	71-43-2	
Bromobenzene	ND ug/kg		4.4	1		12/14/13 09:06	108-86-1	
Bromochloromethane	ND ug/kg		4.4	1		12/14/13 09:06	74-97-5	
Bromodichloromethane	ND ug/kg		4.4	1		12/14/13 09:06	75-27-4	
Bromoform	ND ug/kg		4.4	1		12/14/13 09:06	75-25-2	
Bromomethane	ND ug/kg		4.4	1		12/14/13 09:06	74-83-9	
2-Butanone (MEK)	ND ug/kg		22.0	1		12/14/13 09:06	78-93-3	
n-Butylbenzene	ND ug/kg		4.4	1		12/14/13 09:06	104-51-8	
sec-Butylbenzene	ND ug/kg		4.4	1		12/14/13 09:06	135-98-8	
tert-Butylbenzene	ND ug/kg		4.4	1		12/14/13 09:06	98-06-6	
Carbon disulfide	ND ug/kg		8.8	1		12/14/13 09:06	75-15-0	
Carbon tetrachloride	ND ug/kg		4.4	1		12/14/13 09:06	56-23-5	
Chlorobenzene	ND ug/kg		4.4	1		12/14/13 09:06	108-90-7	
Chloroethane	ND ug/kg		4.4	1		12/14/13 09:06	75-00-3	
Chloroform	ND ug/kg		4.4	1		12/14/13 09:06	67-66-3	
Chloromethane	ND ug/kg		4.4	1		12/14/13 09:06	74-87-3	
2-Chlorotoluene	ND ug/kg		4.4	1		12/14/13 09:06	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-05 (14-15') Lab ID: 5090811005 Collected: 12/04/13 12:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.4	1		12/14/13 09:06	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		12/14/13 09:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/14/13 09:06	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/14/13 09:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 09:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 09:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 09:06	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.9	1		12/14/13 09:06	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		12/14/13 09:06	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 09:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 09:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 09:06	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 09:06	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 09:06	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 09:06	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 09:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 09:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 09:06	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		12/14/13 09:06	100-41-4	
Ethyl methacrylate	ND	ug/kg	87.9	1		12/14/13 09:06	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/14/13 09:06	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		12/14/13 09:06	110-54-3	N2
2-Hexanone	ND	ug/kg	87.9	1		12/14/13 09:06	591-78-6	
Iodomethane	ND	ug/kg	87.9	1		12/14/13 09:06	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/14/13 09:06	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/14/13 09:06	99-87-6	
Methylene Chloride	ND	ug/kg	17.6	1		12/14/13 09:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.0	1		12/14/13 09:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/14/13 09:06	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/14/13 09:06	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/14/13 09:06	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/14/13 09:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/14/13 09:06	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/14/13 09:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/14/13 09:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/14/13 09:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/14/13 09:06	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/14/13 09:06	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/14/13 09:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/14/13 09:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/14/13 09:06	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Sample: HH-SB-GP-05 (14-15') **Lab ID: 5090811005** Collected: 12/04/13 12:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/14/13 09:06	108-67-8	
Vinyl acetate	ND	ug/kg	87.9	1		12/14/13 09:06	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		12/14/13 09:06	75-01-4	
Xylene (Total)	ND	ug/kg	8.8	1		12/14/13 09:06	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	85-118	1		12/14/13 09:06	1868-53-7	
Toluene-d8 (S)	98	%	71-128	1		12/14/13 09:06	2037-26-5	
4-Bromofluorobenzene (S)	98	%	56-144	1		12/14/13 09:06	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	10.4	%	0.10	1		12/11/13 09:41		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-06 (10-11') **Lab ID:** 5090811006 **Collected:** 12/04/13 12:30 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	24.1	mg/kg	1.0	1	12/07/13 09:08	12/09/13 12:26	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	11.5	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	83-32-9	
Acenaphthylene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	208-96-8	
Anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	207-08-9	
Chrysene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	53-70-3	
Fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	206-44-0	
Fluorene	7.8	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	193-39-5	
1-Methylnaphthalene	1940	ug/kg	117	20	12/06/13 12:42	12/09/13 18:59	90-12-0	N2
2-Methylnaphthalene	4290	ug/kg	117	20	12/06/13 12:42	12/09/13 18:59	91-57-6	
Naphthalene	4170	ug/kg	117	20	12/06/13 12:42	12/09/13 18:59	91-20-3	
Phenanthrene	13.1	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	85-01-8	
Pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 10:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	79 %		38-110	1	12/06/13 12:42	12/09/13 10:57	321-60-8	
p-Terphenyl-d14 (S)	73 %		32-111	1	12/06/13 12:42	12/09/13 10:57	1718-51-0	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Acetone	ND	ug/kg	91.2	1		12/16/13 14:58	67-64-1	
Acrolein	ND	ug/kg	91.2	1		12/16/13 14:58	107-02-8	
Acrylonitrile	ND	ug/kg	91.2	1		12/16/13 14:58	107-13-1	
Benzene	ND	ug/kg	4.6	1		12/16/13 14:58	71-43-2	
Bromobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	108-86-1	
Bromochloromethane	ND	ug/kg	4.6	1		12/16/13 14:58	74-97-5	
Bromodichloromethane	ND	ug/kg	4.6	1		12/16/13 14:58	75-27-4	
Bromoform	ND	ug/kg	4.6	1		12/16/13 14:58	75-25-2	
Bromomethane	ND	ug/kg	4.6	1		12/16/13 14:58	74-83-9	
2-Butanone (MEK)	ND	ug/kg	22.8	1		12/16/13 14:58	78-93-3	
n-Butylbenzene	181J	ug/kg	234	50		12/14/13 10:47	104-51-8	J
sec-Butylbenzene	88.2	ug/kg	4.6	1		12/16/13 14:58	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.6	1		12/16/13 14:58	98-06-6	
Carbon disulfide	ND	ug/kg	9.1	1		12/16/13 14:58	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.6	1		12/16/13 14:58	56-23-5	
Chlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	108-90-7	
Chloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	75-00-3	
Chloroform	ND	ug/kg	4.6	1		12/16/13 14:58	67-66-3	
Chloromethane	ND	ug/kg	4.6	1		12/16/13 14:58	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.6	1		12/16/13 14:58	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Sample: HH-SB-GP-06 (10-11') **Lab ID: 5090811006** Collected: 12/04/13 12:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.6	1		12/16/13 14:58	106-43-4	
Dibromochloromethane	ND	ug/kg	4.6	1		12/16/13 14:58	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.6	1		12/16/13 14:58	106-93-4	
Dibromomethane	ND	ug/kg	4.6	1		12/16/13 14:58	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	91.2	1		12/16/13 14:58	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.6	1		12/16/13 14:58	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.6	1		12/16/13 14:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/16/13 14:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.6	1		12/16/13 14:58	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.6	1		12/16/13 14:58	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.6	1		12/16/13 14:58	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.6	1		12/16/13 14:58	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.6	1		12/16/13 14:58	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/16/13 14:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.6	1		12/16/13 14:58	10061-02-6	
Ethylbenzene	88.6	ug/kg	4.6	1		12/16/13 14:58	100-41-4	
Ethyl methacrylate	ND	ug/kg	91.2	1		12/16/13 14:58	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.6	1		12/16/13 14:58	87-68-3	
n-Hexane	ND	ug/kg	4.6	1		12/16/13 14:58	110-54-3	N2
2-Hexanone	ND	ug/kg	91.2	1		12/16/13 14:58	591-78-6	
Iodomethane	ND	ug/kg	91.2	1		12/16/13 14:58	74-88-4	
Isopropylbenzene (Cumene)	108	ug/kg	4.6	1		12/16/13 14:58	98-82-8	
p-Isopropyltoluene	100	ug/kg	4.6	1		12/16/13 14:58	99-87-6	
Methylene Chloride	ND	ug/kg	18.2	1		12/16/13 14:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	22.8	1		12/16/13 14:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.6	1		12/16/13 14:58	1634-04-4	
Naphthalene	370	ug/kg	234	50		12/14/13 10:47	91-20-3	
n-Propylbenzene	177J	ug/kg	234	50		12/14/13 10:47	103-65-1	J
Styrene	ND	ug/kg	4.6	1		12/16/13 14:58	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	79-34-5	
Tetrachloroethene	ND	ug/kg	4.6	1		12/16/13 14:58	127-18-4	
Toluene	ND	ug/kg	4.6	1		12/16/13 14:58	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.6	1		12/16/13 14:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.6	1		12/16/13 14:58	79-00-5	
Trichloroethene	ND	ug/kg	4.6	1		12/16/13 14:58	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.6	1		12/16/13 14:58	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.6	1		12/16/13 14:58	96-18-4	
1,2,4-Trimethylbenzene	1130	ug/kg	234	50		12/14/13 10:47	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Sample: HH-SB-GP-06 (10-11') **Lab ID: 5090811006** Collected: 12/04/13 12:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	402	ug/kg	234	50		12/14/13 10:47	108-67-8	
Vinyl acetate	ND	ug/kg	91.2	1		12/16/13 14:58	108-05-4	
Vinyl chloride	ND	ug/kg	4.6	1		12/16/13 14:58	75-01-4	
Xylene (Total)	100	ug/kg	9.1	1		12/16/13 14:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107	%	85-118	1		12/16/13 14:58	1868-53-7	
Toluene-d8 (S)	121	%	71-128	1		12/16/13 14:58	2037-26-5	
4-Bromofluorobenzene (S)	124	%	56-144	1		12/16/13 14:58	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.8	%	0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-07 (4-5') **Lab ID:** 5090811007 **Collected:** 12/04/13 13:00 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	1060	mg/kg	0.97	1	12/07/13 09:08	12/09/13 12:28	7439-92-1	
8270 MSSV PAH by SIM								
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	43.0	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	83-32-9	
Acenaphthylene	ND	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	208-96-8	
Anthracene	137	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	120-12-7	
Benzo(a)anthracene	463	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	56-55-3	
Benzo(a)pyrene	490	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	50-32-8	
Benzo(b)fluoranthene	563	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	205-99-2	
Benzo(g,h,i)perylene	333	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	191-24-2	
Benzo(k)fluoranthene	475	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	207-08-9	
Chrysene	625	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	218-01-9	
Dibenz(a,h)anthracene	132	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	53-70-3	
Fluoranthene	636	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	206-44-0	
Fluorene	ND	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	86-73-7	
Indeno(1,2,3-cd)pyrene	291	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	193-39-5	
1-Methylnaphthalene	2820	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	90-12-0	N2
2-Methylnaphthalene	5160	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	91-57-6	
Naphthalene	1850	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	91-20-3	1d
Phenanthrene	1010	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	85-01-8	
Pyrene	631	ug/kg	28.1	5	12/06/13 12:42	12/09/13 11:50	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80 %		38-110	5	12/06/13 12:42	12/09/13 11:50	321-60-8	
p-Terphenyl-d14 (S)	82 %		32-111	5	12/06/13 12:42	12/09/13 11:50	1718-51-0	
8260 MSV 5035A VOA								
Analytical Method: EPA 8260								
Acetone	ND	ug/kg	93.9	1		12/14/13 11:55	67-64-1	
Acrolein	ND	ug/kg	93.9	1		12/14/13 11:55	107-02-8	
Acrylonitrile	ND	ug/kg	93.9	1		12/14/13 11:55	107-13-1	
Benzene	ND	ug/kg	4.7	1		12/14/13 11:55	71-43-2	
Bromobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	108-86-1	
Bromochloromethane	ND	ug/kg	4.7	1		12/14/13 11:55	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1		12/14/13 11:55	75-27-4	
Bromoform	ND	ug/kg	4.7	1		12/14/13 11:55	75-25-2	
Bromomethane	ND	ug/kg	4.7	1		12/14/13 11:55	74-83-9	
2-Butanone (MEK)	ND	ug/kg	23.5	1		12/14/13 11:55	78-93-3	
n-Butylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	98-06-6	
Carbon disulfide	ND	ug/kg	9.4	1		12/14/13 11:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1		12/14/13 11:55	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	108-90-7	
Chloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	75-00-3	
Chloroform	ND	ug/kg	4.7	1		12/14/13 11:55	67-66-3	
Chloromethane	ND	ug/kg	4.7	1		12/14/13 11:55	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.7	1		12/14/13 11:55	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-07 (4-5') **Lab ID:** 5090811007 **Collected:** 12/04/13 13:00 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.7	1		12/14/13 11:55	106-43-4	
Dibromochloromethane	ND	ug/kg	4.7	1		12/14/13 11:55	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.7	1		12/14/13 11:55	106-93-4	
Dibromomethane	ND	ug/kg	4.7	1		12/14/13 11:55	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	93.9	1		12/14/13 11:55	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.7	1		12/14/13 11:55	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.7	1		12/14/13 11:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/14/13 11:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1		12/14/13 11:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	1		12/14/13 11:55	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.7	1		12/14/13 11:55	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.7	1		12/14/13 11:55	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.7	1		12/14/13 11:55	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/14/13 11:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	1		12/14/13 11:55	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	100-41-4	
Ethyl methacrylate	ND	ug/kg	93.9	1		12/14/13 11:55	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.7	1		12/14/13 11:55	87-68-3	
n-Hexane	ND	ug/kg	4.7	1		12/14/13 11:55	110-54-3	N2
2-Hexanone	ND	ug/kg	93.9	1		12/14/13 11:55	591-78-6	
Iodomethane	ND	ug/kg	93.9	1		12/14/13 11:55	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1		12/14/13 11:55	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.7	1		12/14/13 11:55	99-87-6	
Methylene Chloride	ND	ug/kg	18.8	1		12/14/13 11:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	23.5	1		12/14/13 11:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	1		12/14/13 11:55	1634-04-4	
Naphthalene	ND	ug/kg	4.7	1		12/14/13 11:55	91-20-3	
n-Propylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	103-65-1	
Styrene	ND	ug/kg	4.7	1		12/14/13 11:55	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1		12/14/13 11:55	127-18-4	
Toluene	ND	ug/kg	4.7	1		12/14/13 11:55	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1		12/14/13 11:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	1		12/14/13 11:55	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1		12/14/13 11:55	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.7	1		12/14/13 11:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.7	1		12/14/13 11:55	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-07 (4-5') **Lab ID: 5090811007** Collected: 12/04/13 13:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1		12/14/13 11:55	108-67-8	
Vinyl acetate	ND	ug/kg	93.9	1		12/14/13 11:55	108-05-4	
Vinyl chloride	ND	ug/kg	4.7	1		12/14/13 11:55	75-01-4	
Xylene (Total)	ND	ug/kg	9.4	1		12/14/13 11:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	85-118	1		12/14/13 11:55	1868-53-7	
Toluene-d8 (S)	101	%	71-128	1		12/14/13 11:55	2037-26-5	
4-Bromofluorobenzene (S)	95	%	56-144	1		12/14/13 11:55	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	11.2	%	0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-08 (14-15') Lab ID: 5090811008 Collected: 12/04/13 13:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	7.3	mg/kg	0.97	1	12/07/13 09:08	12/09/13 12:30	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	83-32-9	
Acenaphthylene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	208-96-8	
Anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	207-08-9	
Chrysene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	53-70-3	
Fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	206-44-0	
Fluorene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	91-57-6	
Naphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	91-20-3	
Phenanthrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	85-01-8	
Pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:08	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	80 %		38-110	1	12/06/13 12:42	12/09/13 12:08	321-60-8	
p-Terphenyl-d14 (S)	83 %		32-111	1	12/06/13 12:42	12/09/13 12:08	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	87.4	1		12/14/13 12:29	67-64-1	
Acrolein	ND	ug/kg	87.4	1		12/14/13 12:29	107-02-8	
Acrylonitrile	ND	ug/kg	87.4	1		12/14/13 12:29	107-13-1	
Benzene	ND	ug/kg	4.4	1		12/14/13 12:29	71-43-2	
Bromobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	108-86-1	
Bromochloromethane	ND	ug/kg	4.4	1		12/14/13 12:29	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	1		12/14/13 12:29	75-27-4	
Bromoform	ND	ug/kg	4.4	1		12/14/13 12:29	75-25-2	
Bromomethane	ND	ug/kg	4.4	1		12/14/13 12:29	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.9	1		12/14/13 12:29	78-93-3	
n-Butylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	98-06-6	
Carbon disulfide	ND	ug/kg	8.7	1		12/14/13 12:29	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1		12/14/13 12:29	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	108-90-7	
Chloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	75-00-3	
Chloroform	ND	ug/kg	4.4	1		12/14/13 12:29	67-66-3	
Chloromethane	ND	ug/kg	4.4	1		12/14/13 12:29	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.4	1		12/14/13 12:29	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-08 (14-15') Lab ID: 5090811008 Collected: 12/04/13 13:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.4	1		12/14/13 12:29	106-43-4	
Dibromochloromethane	ND	ug/kg	4.4	1		12/14/13 12:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.4	1		12/14/13 12:29	106-93-4	
Dibromomethane	ND	ug/kg	4.4	1		12/14/13 12:29	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	87.4	1		12/14/13 12:29	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.4	1		12/14/13 12:29	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 12:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 12:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1		12/14/13 12:29	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 12:29	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 12:29	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.4	1		12/14/13 12:29	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 12:29	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 12:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	1		12/14/13 12:29	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	100-41-4	
Ethyl methacrylate	ND	ug/kg	87.4	1		12/14/13 12:29	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.4	1		12/14/13 12:29	87-68-3	
n-Hexane	ND	ug/kg	4.4	1		12/14/13 12:29	110-54-3	N2
2-Hexanone	ND	ug/kg	87.4	1		12/14/13 12:29	591-78-6	
Iodomethane	ND	ug/kg	87.4	1		12/14/13 12:29	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1		12/14/13 12:29	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.4	1		12/14/13 12:29	99-87-6	
Methylene Chloride	ND	ug/kg	17.5	1		12/14/13 12:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.9	1		12/14/13 12:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	1		12/14/13 12:29	1634-04-4	
Naphthalene	ND	ug/kg	4.4	1		12/14/13 12:29	91-20-3	
n-Propylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	103-65-1	
Styrene	ND	ug/kg	4.4	1		12/14/13 12:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1		12/14/13 12:29	127-18-4	
Toluene	ND	ug/kg	4.4	1		12/14/13 12:29	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1		12/14/13 12:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	1		12/14/13 12:29	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1		12/14/13 12:29	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.4	1		12/14/13 12:29	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.4	1		12/14/13 12:29	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-08 (14-15') **Lab ID: 5090811008** Collected: 12/04/13 13:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1		12/14/13 12:29	108-67-8	
Vinyl acetate	ND	ug/kg	87.4	1		12/14/13 12:29	108-05-4	
Vinyl chloride	ND	ug/kg	4.4	1		12/14/13 12:29	75-01-4	
Xylene (Total)	ND	ug/kg	8.7	1		12/14/13 12:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %.		85-118	1		12/14/13 12:29	1868-53-7	
Toluene-d8 (S)	97 %.		71-128	1		12/14/13 12:29	2037-26-5	
4-Bromofluorobenzene (S)	98 %.		56-144	1		12/14/13 12:29	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	7.3 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-09 (14-15') Lab ID: 5090811009 Collected: 12/04/13 13:45 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	7.7	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:38	7439-92-1	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	83-32-9	
Acenaphthylene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	208-96-8	
Anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	207-08-9	
Chrysene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	53-70-3	
Fluoranthene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	206-44-0	
Fluorene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	91-57-6	
Naphthalene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	91-20-3	
Phenanthrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	85-01-8	
Pyrene	ND	ug/kg	6.1	1	12/06/13 12:42	12/09/13 12:26	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	104 %		38-110	1	12/06/13 12:42	12/09/13 12:26	321-60-8	
p-Terphenyl-d14 (S)	79 %		32-111	1	12/06/13 12:42	12/09/13 12:26	1718-51-0	

8260 MSV 5035A VOA Analytical Method: EPA 8260

Acetone	ND	ug/kg	96.4	1		12/16/13 16:08	67-64-1	
Acrolein	ND	ug/kg	96.4	1		12/16/13 16:08	107-02-8	
Acrylonitrile	ND	ug/kg	96.4	1		12/16/13 16:08	107-13-1	
Benzene	ND	ug/kg	4.8	1		12/16/13 16:08	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/16/13 16:08	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/16/13 16:08	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/16/13 16:08	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		12/16/13 16:08	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.1	1		12/16/13 16:08	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		12/16/13 16:08	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/16/13 16:08	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	75-00-3	
Chloroform	ND	ug/kg	4.8	1		12/16/13 16:08	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		12/16/13 16:08	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/16/13 16:08	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-09 (14-15') Lab ID: 5090811009 Collected: 12/04/13 13:45 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.8	1		12/16/13 16:08	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		12/16/13 16:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/16/13 16:08	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/16/13 16:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	96.4	1		12/16/13 16:08	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		12/16/13 16:08	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 16:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 16:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 16:08	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 16:08	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 16:08	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 16:08	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 16:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 16:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 16:08	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	100-41-4	
Ethyl methacrylate	ND	ug/kg	96.4	1		12/16/13 16:08	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/16/13 16:08	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		12/16/13 16:08	110-54-3	N2
2-Hexanone	ND	ug/kg	96.4	1		12/16/13 16:08	591-78-6	
Iodomethane	ND	ug/kg	96.4	1		12/16/13 16:08	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/16/13 16:08	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/16/13 16:08	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		12/16/13 16:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.1	1		12/16/13 16:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/16/13 16:08	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/16/13 16:08	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/16/13 16:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/16/13 16:08	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/16/13 16:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/16/13 16:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/16/13 16:08	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/16/13 16:08	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/16/13 16:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/16/13 16:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-09 (14-15') **Lab ID: 5090811009** Collected: 12/04/13 13:45 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/16/13 16:08	108-67-8	
Vinyl acetate	ND	ug/kg	96.4	1		12/16/13 16:08	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		12/16/13 16:08	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		12/16/13 16:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96 %		85-118	1		12/16/13 16:08	1868-53-7	
Toluene-d8 (S)	98 %		71-128	1		12/16/13 16:08	2037-26-5	
4-Bromofluorobenzene (S)	100 %		56-144	1		12/16/13 16:08	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.8 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-10 (4-5') **Lab ID:** 5090811010 **Collected:** 12/04/13 14:00 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	10.0	mg/kg	1.0	1	12/07/13 09:08	12/09/13 12:40	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	83-32-9	
Acenaphthylene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	208-96-8	
Anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	207-08-9	
Chrysene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	53-70-3	
Fluoranthene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	206-44-0	
Fluorene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	91-57-6	
Naphthalene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	91-20-3	
Phenanthrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	85-01-8	
Pyrene	ND	ug/kg	5.4	1	12/06/13 12:42	12/09/13 12:44	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	85 %		38-110	1	12/06/13 12:42	12/09/13 12:44	321-60-8	
p-Terphenyl-d14 (S)	86 %		32-111	1	12/06/13 12:42	12/09/13 12:44	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	86.3	1		12/16/13 16:42	67-64-1	
Acrolein	ND	ug/kg	86.3	1		12/16/13 16:42	107-02-8	
Acrylonitrile	ND	ug/kg	86.3	1		12/16/13 16:42	107-13-1	
Benzene	ND	ug/kg	4.3	1		12/16/13 16:42	71-43-2	
Bromobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.3	1		12/16/13 16:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	1		12/16/13 16:42	75-27-4	
Bromoform	ND	ug/kg	4.3	1		12/16/13 16:42	75-25-2	
Bromomethane	ND	ug/kg	4.3	1		12/16/13 16:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	21.6	1		12/16/13 16:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	98-06-6	
Carbon disulfide	ND	ug/kg	8.6	1		12/16/13 16:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1		12/16/13 16:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	108-90-7	
Chloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	75-00-3	
Chloroform	ND	ug/kg	4.3	1		12/16/13 16:42	67-66-3	
Chloromethane	ND	ug/kg	4.3	1		12/16/13 16:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.3	1		12/16/13 16:42	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-10 (4-5') **Lab ID: 5090811010** Collected: 12/04/13 14:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.3	1		12/16/13 16:42	106-43-4	
Dibromochloromethane	ND	ug/kg	4.3	1		12/16/13 16:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.3	1		12/16/13 16:42	106-93-4	
Dibromomethane	ND	ug/kg	4.3	1		12/16/13 16:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	86.3	1		12/16/13 16:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.3	1		12/16/13 16:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.3	1		12/16/13 16:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/16/13 16:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1		12/16/13 16:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	1		12/16/13 16:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.3	1		12/16/13 16:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.3	1		12/16/13 16:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.3	1		12/16/13 16:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/16/13 16:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	1		12/16/13 16:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	86.3	1		12/16/13 16:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.3	1		12/16/13 16:42	87-68-3	
n-Hexane	ND	ug/kg	4.3	1		12/16/13 16:42	110-54-3	N2
2-Hexanone	ND	ug/kg	86.3	1		12/16/13 16:42	591-78-6	
Iodomethane	ND	ug/kg	86.3	1		12/16/13 16:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	1		12/16/13 16:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.3	1		12/16/13 16:42	99-87-6	
Methylene Chloride	ND	ug/kg	17.3	1		12/16/13 16:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	21.6	1		12/16/13 16:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	1		12/16/13 16:42	1634-04-4	
Naphthalene	ND	ug/kg	4.3	1		12/16/13 16:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	103-65-1	
Styrene	ND	ug/kg	4.3	1		12/16/13 16:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1		12/16/13 16:42	127-18-4	
Toluene	ND	ug/kg	4.3	1		12/16/13 16:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1		12/16/13 16:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	1		12/16/13 16:42	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1		12/16/13 16:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.3	1		12/16/13 16:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.3	1		12/16/13 16:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Sample: HH-SB-GP-10 (4-5') **Lab ID: 5090811010** Collected: 12/04/13 14:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1		12/16/13 16:42	108-67-8	
Vinyl acetate	ND	ug/kg	86.3	1		12/16/13 16:42	108-05-4	
Vinyl chloride	ND	ug/kg	4.3	1		12/16/13 16:42	75-01-4	
Xylene (Total)	ND	ug/kg	8.6	1		12/16/13 16:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %.		85-118	1		12/16/13 16:42	1868-53-7	
Toluene-d8 (S)	96 %.		71-128	1		12/16/13 16:42	2037-26-5	
4-Bromofluorobenzene (S)	103 %.		56-144	1		12/16/13 16:42	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	8.3 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-11 (4-5') Lab ID: 5090811011 Collected: 12/04/13 14:15 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	10.8	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:42	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	83-32-9	
Acenaphthylene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	208-96-8	
Anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	207-08-9	
Chrysene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	53-70-3	
Fluoranthene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	206-44-0	
Fluorene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	91-57-6	
Naphthalene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	91-20-3	
Phenanthrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	85-01-8	
Pyrene	ND	ug/kg	5.9	1	12/06/13 12:42	12/09/13 13:02	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77 %		38-110	1	12/06/13 12:42	12/09/13 13:02	321-60-8	
p-Terphenyl-d14 (S)	78 %		32-111	1	12/06/13 12:42	12/09/13 13:02	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	82.6	1		12/16/13 17:42	67-64-1	
Acrolein	ND	ug/kg	82.6	1		12/16/13 17:42	107-02-8	
Acrylonitrile	ND	ug/kg	82.6	1		12/16/13 17:42	107-13-1	
Benzene	ND	ug/kg	4.1	1		12/16/13 17:42	71-43-2	
Bromobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	108-86-1	
Bromochloromethane	ND	ug/kg	4.1	1		12/16/13 17:42	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	1		12/16/13 17:42	75-27-4	
Bromoform	ND	ug/kg	4.1	1		12/16/13 17:42	75-25-2	
Bromomethane	ND	ug/kg	4.1	1		12/16/13 17:42	74-83-9	
2-Butanone (MEK)	ND	ug/kg	20.7	1		12/16/13 17:42	78-93-3	
n-Butylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	98-06-6	
Carbon disulfide	ND	ug/kg	8.3	1		12/16/13 17:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1		12/16/13 17:42	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	108-90-7	
Chloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	75-00-3	
Chloroform	ND	ug/kg	4.1	1		12/16/13 17:42	67-66-3	
Chloromethane	ND	ug/kg	4.1	1		12/16/13 17:42	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.1	1		12/16/13 17:42	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-11 (4-5') **Lab ID:** 5090811011 **Collected:** 12/04/13 14:15 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.1	1		12/16/13 17:42	106-43-4	
Dibromochloromethane	ND	ug/kg	4.1	1		12/16/13 17:42	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.1	1		12/16/13 17:42	106-93-4	
Dibromomethane	ND	ug/kg	4.1	1		12/16/13 17:42	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	82.6	1		12/16/13 17:42	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.1	1		12/16/13 17:42	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.1	1		12/16/13 17:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/16/13 17:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1		12/16/13 17:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	1		12/16/13 17:42	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.1	1		12/16/13 17:42	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.1	1		12/16/13 17:42	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.1	1		12/16/13 17:42	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/16/13 17:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	1		12/16/13 17:42	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	100-41-4	
Ethyl methacrylate	ND	ug/kg	82.6	1		12/16/13 17:42	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.1	1		12/16/13 17:42	87-68-3	
n-Hexane	ND	ug/kg	4.1	1		12/16/13 17:42	110-54-3	N2
2-Hexanone	ND	ug/kg	82.6	1		12/16/13 17:42	591-78-6	
Iodomethane	ND	ug/kg	82.6	1		12/16/13 17:42	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	1		12/16/13 17:42	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.1	1		12/16/13 17:42	99-87-6	
Methylene Chloride	ND	ug/kg	16.5	1		12/16/13 17:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	20.7	1		12/16/13 17:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	1		12/16/13 17:42	1634-04-4	
Naphthalene	ND	ug/kg	4.1	1		12/16/13 17:42	91-20-3	
n-Propylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	103-65-1	
Styrene	ND	ug/kg	4.1	1		12/16/13 17:42	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1		12/16/13 17:42	127-18-4	
Toluene	ND	ug/kg	4.1	1		12/16/13 17:42	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1		12/16/13 17:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	1		12/16/13 17:42	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1		12/16/13 17:42	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.1	1		12/16/13 17:42	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.1	1		12/16/13 17:42	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

Sample: HH-SB-GP-11 (4-5') **Lab ID: 5090811011** Collected: 12/04/13 14:15 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1		12/16/13 17:42	108-67-8	
Vinyl acetate	ND	ug/kg	82.6	1		12/16/13 17:42	108-05-4	
Vinyl chloride	ND	ug/kg	4.1	1		12/16/13 17:42	75-01-4	
Xylene (Total)	ND	ug/kg	8.3	1		12/16/13 17:42	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %.		85-118	1		12/16/13 17:42	1868-53-7	
Toluene-d8 (S)	97 %.		71-128	1		12/16/13 17:42	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		56-144	1		12/16/13 17:42	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.4 %		0.10	1		12/10/13 08:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-12 (4-5') **Lab ID:** 5090811012 **Collected:** 12/04/13 14:30 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	12.4	mg/kg	1.1	1	12/07/13 09:08	12/09/13 12:44	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	83-32-9	
Acenaphthylene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	208-96-8	
Anthracene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	120-12-7	
Benzo(a)anthracene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	207-08-9	
Chrysene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	53-70-3	
Fluoranthene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	206-44-0	
Fluorene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	193-39-5	
1-Methylnaphthalene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	91-57-6	
Naphthalene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	91-20-3	
Phenanthrene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	85-01-8	
Pyrene	ND	ug/kg	6.0	1	12/06/13 17:15	12/08/13 14:45	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71 %		38-110	1	12/06/13 17:15	12/08/13 14:45	321-60-8	
p-Terphenyl-d14 (S)	69 %		32-111	1	12/06/13 17:15	12/08/13 14:45	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	96.4	1		12/16/13 18:17	67-64-1	
Acrolein	ND	ug/kg	96.4	1		12/16/13 18:17	107-02-8	
Acrylonitrile	ND	ug/kg	96.4	1		12/16/13 18:17	107-13-1	
Benzene	ND	ug/kg	4.8	1		12/16/13 18:17	71-43-2	
Bromobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	108-86-1	
Bromochloromethane	ND	ug/kg	4.8	1		12/16/13 18:17	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1		12/16/13 18:17	75-27-4	
Bromoform	ND	ug/kg	4.8	1		12/16/13 18:17	75-25-2	
Bromomethane	ND	ug/kg	4.8	1		12/16/13 18:17	74-83-9	
2-Butanone (MEK)	ND	ug/kg	24.1	1		12/16/13 18:17	78-93-3	
n-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	104-51-8	
sec-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	135-98-8	
tert-Butylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	98-06-6	
Carbon disulfide	ND	ug/kg	9.6	1		12/16/13 18:17	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1		12/16/13 18:17	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	108-90-7	
Chloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	75-00-3	
Chloroform	ND	ug/kg	4.8	1		12/16/13 18:17	67-66-3	
Chloromethane	ND	ug/kg	4.8	1		12/16/13 18:17	74-87-3	
2-Chlorotoluene	ND	ug/kg	4.8	1		12/16/13 18:17	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-12 (4-5') **Lab ID:** 5090811012 **Collected:** 12/04/13 14:30 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.8	1		12/16/13 18:17	106-43-4	
Dibromochloromethane	ND	ug/kg	4.8	1		12/16/13 18:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.8	1		12/16/13 18:17	106-93-4	
Dibromomethane	ND	ug/kg	4.8	1		12/16/13 18:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	96.4	1		12/16/13 18:17	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.8	1		12/16/13 18:17	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 18:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1		12/16/13 18:17	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 18:17	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 18:17	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.8	1		12/16/13 18:17	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 18:17	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1		12/16/13 18:17	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	100-41-4	
Ethyl methacrylate	ND	ug/kg	96.4	1		12/16/13 18:17	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.8	1		12/16/13 18:17	87-68-3	
n-Hexane	ND	ug/kg	4.8	1		12/16/13 18:17	110-54-3	N2
2-Hexanone	ND	ug/kg	96.4	1		12/16/13 18:17	591-78-6	
Iodomethane	ND	ug/kg	96.4	1		12/16/13 18:17	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1		12/16/13 18:17	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.8	1		12/16/13 18:17	99-87-6	
Methylene Chloride	ND	ug/kg	19.3	1		12/16/13 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.1	1		12/16/13 18:17	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	1		12/16/13 18:17	1634-04-4	
Naphthalene	ND	ug/kg	4.8	1		12/16/13 18:17	91-20-3	
n-Propylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	103-65-1	
Styrene	ND	ug/kg	4.8	1		12/16/13 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1		12/16/13 18:17	127-18-4	
Toluene	ND	ug/kg	4.8	1		12/16/13 18:17	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1		12/16/13 18:17	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	1		12/16/13 18:17	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1		12/16/13 18:17	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.8	1		12/16/13 18:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.8	1		12/16/13 18:17	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-12 (4-5') **Lab ID:** 5090811012 Collected: 12/04/13 14:30 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1		12/16/13 18:17	108-67-8	
Vinyl acetate	ND	ug/kg	96.4	1		12/16/13 18:17	108-05-4	
Vinyl chloride	ND	ug/kg	4.8	1		12/16/13 18:17	75-01-4	
Xylene (Total)	ND	ug/kg	9.6	1		12/16/13 18:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %.		85-118	1		12/16/13 18:17	1868-53-7	
Toluene-d8 (S)	97 %.		71-128	1		12/16/13 18:17	2037-26-5	
4-Bromofluorobenzene (S)	101 %.		56-144	1		12/16/13 18:17	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.6 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-13 (4-5') **Lab ID:** 5090811013 **Collected:** 12/04/13 15:00 **Received:** 12/05/13 09:58 **Matrix:** Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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6010 MET ICP

Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead	10.9 mg/kg		6.1	1	12/07/13 09:08	12/09/13 12:46	7439-92-1	
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8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	83-32-9	
Acenaphthylene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	208-96-8	
Anthracene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	207-08-9	
Chrysene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	53-70-3	
Fluoranthene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	206-44-0	
Fluorene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	193-39-5	
1-Methylnaphthalene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	90-12-0	N2
2-Methylnaphthalene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	91-57-6	
Naphthalene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	91-20-3	
Phenanthrene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	85-01-8	
Pyrene	ND ug/kg		6.1	1	12/06/13 17:15	12/08/13 15:03	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70 %.		38-110	1	12/06/13 17:15	12/08/13 15:03	321-60-8	
p-Terphenyl-d14 (S)	72 %.		32-111	1	12/06/13 17:15	12/08/13 15:03	1718-51-0	

8260 MSV 5035A VOA

Analytical Method: EPA 8260

Acetone	ND ug/kg		98.5	1		12/16/13 18:51	67-64-1	
Acrolein	ND ug/kg		98.5	1		12/16/13 18:51	107-02-8	
Acrylonitrile	ND ug/kg		98.5	1		12/16/13 18:51	107-13-1	
Benzene	ND ug/kg		4.9	1		12/16/13 18:51	71-43-2	
Bromobenzene	ND ug/kg		4.9	1		12/16/13 18:51	108-86-1	
Bromochloromethane	ND ug/kg		4.9	1		12/16/13 18:51	74-97-5	
Bromodichloromethane	ND ug/kg		4.9	1		12/16/13 18:51	75-27-4	
Bromoform	ND ug/kg		4.9	1		12/16/13 18:51	75-25-2	
Bromomethane	ND ug/kg		4.9	1		12/16/13 18:51	74-83-9	
2-Butanone (MEK)	ND ug/kg		24.6	1		12/16/13 18:51	78-93-3	
n-Butylbenzene	ND ug/kg		4.9	1		12/16/13 18:51	104-51-8	
sec-Butylbenzene	ND ug/kg		4.9	1		12/16/13 18:51	135-98-8	
tert-Butylbenzene	ND ug/kg		4.9	1		12/16/13 18:51	98-06-6	
Carbon disulfide	ND ug/kg		9.9	1		12/16/13 18:51	75-15-0	
Carbon tetrachloride	ND ug/kg		4.9	1		12/16/13 18:51	56-23-5	
Chlorobenzene	ND ug/kg		4.9	1		12/16/13 18:51	108-90-7	
Chloroethane	ND ug/kg		4.9	1		12/16/13 18:51	75-00-3	
Chloroform	ND ug/kg		4.9	1		12/16/13 18:51	67-66-3	
Chloromethane	ND ug/kg		4.9	1		12/16/13 18:51	74-87-3	
2-Chlorotoluene	ND ug/kg		4.9	1		12/16/13 18:51	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-13 (4-5') **Lab ID:** 5090811013 Collected: 12/04/13 15:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	4.9	1		12/16/13 18:51	106-43-4	
Dibromochloromethane	ND	ug/kg	4.9	1		12/16/13 18:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	4.9	1		12/16/13 18:51	106-93-4	
Dibromomethane	ND	ug/kg	4.9	1		12/16/13 18:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	4.9	1		12/16/13 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.9	1		12/16/13 18:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.9	1		12/16/13 18:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	98.5	1		12/16/13 18:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	4.9	1		12/16/13 18:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	4.9	1		12/16/13 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/16/13 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.9	1		12/16/13 18:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.9	1		12/16/13 18:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	4.9	1		12/16/13 18:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	4.9	1		12/16/13 18:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	4.9	1		12/16/13 18:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/16/13 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.9	1		12/16/13 18:51	10061-02-6	
Ethylbenzene	ND	ug/kg	4.9	1		12/16/13 18:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	98.5	1		12/16/13 18:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	4.9	1		12/16/13 18:51	87-68-3	
n-Hexane	ND	ug/kg	4.9	1		12/16/13 18:51	110-54-3	N2
2-Hexanone	ND	ug/kg	98.5	1		12/16/13 18:51	591-78-6	
Iodomethane	ND	ug/kg	98.5	1		12/16/13 18:51	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	4.9	1		12/16/13 18:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	4.9	1		12/16/13 18:51	99-87-6	
Methylene Chloride	ND	ug/kg	19.7	1		12/16/13 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	24.6	1		12/16/13 18:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.9	1		12/16/13 18:51	1634-04-4	
Naphthalene	ND	ug/kg	4.9	1		12/16/13 18:51	91-20-3	
n-Propylbenzene	ND	ug/kg	4.9	1		12/16/13 18:51	103-65-1	
Styrene	ND	ug/kg	4.9	1		12/16/13 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	79-34-5	
Tetrachloroethene	ND	ug/kg	4.9	1		12/16/13 18:51	127-18-4	
Toluene	ND	ug/kg	4.9	1		12/16/13 18:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	4.9	1		12/16/13 18:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	4.9	1		12/16/13 18:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.9	1		12/16/13 18:51	79-00-5	
Trichloroethene	ND	ug/kg	4.9	1		12/16/13 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	4.9	1		12/16/13 18:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	4.9	1		12/16/13 18:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	4.9	1		12/16/13 18:51	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: HH-SB-GP-13 (4-5') **Lab ID: 5090811013** Collected: 12/04/13 15:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	4.9	1		12/16/13 18:51	108-67-8	
Vinyl acetate	ND	ug/kg	98.5	1		12/16/13 18:51	108-05-4	
Vinyl chloride	ND	ug/kg	4.9	1		12/16/13 18:51	75-01-4	
Xylene (Total)	ND	ug/kg	9.9	1		12/16/13 18:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104	%	85-118	1		12/16/13 18:51	1868-53-7	
Toluene-d8 (S)	97	%	71-128	1		12/16/13 18:51	2037-26-5	
4-Bromofluorobenzene (S)	101	%	56-144	1		12/16/13 18:51	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.4	%	0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: DUPLICATE **Lab ID: 5090811014** Collected: 12/04/13 08:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	10.8	mg/kg	0.99	1	12/07/13 09:08	12/09/13 12:48	7439-92-1	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546						
Acenaphthene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	83-32-9	
Acenaphthylene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	208-96-8	
Anthracene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	120-12-7	
Benzo(a)anthracene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	56-55-3	
Benzo(a)pyrene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	207-08-9	
Chrysene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	53-70-3	
Fluoranthene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	206-44-0	
Fluorene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	193-39-5	
1-Methylnaphthalene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	90-12-0	N2
2-Methylnaphthalene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	91-57-6	
Naphthalene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	91-20-3	
Phenanthrene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	85-01-8	
Pyrene	ND	ug/kg	5.9	1	12/06/13 17:15	12/08/13 15:21	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77 %		38-110	1	12/06/13 17:15	12/08/13 15:21	321-60-8	
p-Terphenyl-d14 (S)	79 %		32-111	1	12/06/13 17:15	12/08/13 15:21	1718-51-0	
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	119	1		12/16/13 19:26	67-64-1	
Acrolein	ND	ug/kg	119	1		12/16/13 19:26	107-02-8	
Acrylonitrile	ND	ug/kg	119	1		12/16/13 19:26	107-13-1	
Benzene	ND	ug/kg	5.9	1		12/16/13 19:26	71-43-2	
Bromobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	108-86-1	
Bromochloromethane	ND	ug/kg	5.9	1		12/16/13 19:26	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1		12/16/13 19:26	75-27-4	
Bromoform	ND	ug/kg	5.9	1		12/16/13 19:26	75-25-2	
Bromomethane	ND	ug/kg	5.9	1		12/16/13 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/kg	29.7	1		12/16/13 19:26	78-93-3	
n-Butylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	98-06-6	
Carbon disulfide	ND	ug/kg	11.9	1		12/16/13 19:26	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	1		12/16/13 19:26	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	108-90-7	
Chloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	75-00-3	
Chloroform	ND	ug/kg	5.9	1		12/16/13 19:26	67-66-3	
Chloromethane	ND	ug/kg	5.9	1		12/16/13 19:26	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.9	1		12/16/13 19:26	95-49-8	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: DUPLICATE **Lab ID: 5090811014** Collected: 12/04/13 08:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
4-Chlorotoluene	ND	ug/kg	5.9	1		12/16/13 19:26	106-43-4	
Dibromochloromethane	ND	ug/kg	5.9	1		12/16/13 19:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.9	1		12/16/13 19:26	106-93-4	
Dibromomethane	ND	ug/kg	5.9	1		12/16/13 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	119	1		12/16/13 19:26	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.9	1		12/16/13 19:26	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.9	1		12/16/13 19:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1		12/16/13 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1		12/16/13 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	1		12/16/13 19:26	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.9	1		12/16/13 19:26	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.9	1		12/16/13 19:26	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.9	1		12/16/13 19:26	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	1		12/16/13 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1		12/16/13 19:26	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	100-41-4	
Ethyl methacrylate	ND	ug/kg	119	1		12/16/13 19:26	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.9	1		12/16/13 19:26	87-68-3	
n-Hexane	ND	ug/kg	5.9	1		12/16/13 19:26	110-54-3	N2
2-Hexanone	ND	ug/kg	119	1		12/16/13 19:26	591-78-6	
Iodomethane	ND	ug/kg	119	1		12/16/13 19:26	74-88-4	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1		12/16/13 19:26	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.9	1		12/16/13 19:26	99-87-6	
Methylene Chloride	ND	ug/kg	23.7	1		12/16/13 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	29.7	1		12/16/13 19:26	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	1		12/16/13 19:26	1634-04-4	
Naphthalene	ND	ug/kg	5.9	1		12/16/13 19:26	91-20-3	
n-Propylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	103-65-1	
Styrene	ND	ug/kg	5.9	1		12/16/13 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	1		12/16/13 19:26	127-18-4	
Toluene	ND	ug/kg	5.9	1		12/16/13 19:26	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	1		12/16/13 19:26	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1		12/16/13 19:26	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1		12/16/13 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.9	1		12/16/13 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.9	1		12/16/13 19:26	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	95-63-6	

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: DUPLICATE **Lab ID: 5090811014** Collected: 12/04/13 08:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	1		12/16/13 19:26	108-67-8	
Vinyl acetate	ND	ug/kg	119	1		12/16/13 19:26	108-05-4	
Vinyl chloride	ND	ug/kg	5.9	1		12/16/13 19:26	75-01-4	
Xylene (Total)	ND	ug/kg	11.9	1		12/16/13 19:26	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %.		85-118	1		12/16/13 19:26	1868-53-7	
Toluene-d8 (S)	98 %.		71-128	1		12/16/13 19:26	2037-26-5	
4-Bromofluorobenzene (S)	102 %.		56-144	1		12/16/13 19:26	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	15.6 %		0.10	1		12/10/13 08:02		

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: TRIP BLANK **Lab ID: 5090811015** Collected: 12/04/13 10:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Acetone	ND	ug/kg	100	1		12/18/13 02:51	67-64-1	
Acrolein	ND	ug/kg	100	1		12/18/13 02:51	107-02-8	
Acrylonitrile	ND	ug/kg	100	1		12/18/13 02:51	107-13-1	
Benzene	ND	ug/kg	5.0	1		12/18/13 02:51	71-43-2	
Bromobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	108-86-1	
Bromochloromethane	ND	ug/kg	5.0	1		12/18/13 02:51	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1		12/18/13 02:51	75-27-4	
Bromoform	ND	ug/kg	5.0	1		12/18/13 02:51	75-25-2	
Bromomethane	ND	ug/kg	5.0	1		12/18/13 02:51	74-83-9	
2-Butanone (MEK)	ND	ug/kg	25.0	1		12/18/13 02:51	78-93-3	
n-Butylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	104-51-8	
sec-Butylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	135-98-8	
tert-Butylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	98-06-6	
Carbon disulfide	ND	ug/kg	10.0	1		12/18/13 02:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1		12/18/13 02:51	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	108-90-7	
Chloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	75-00-3	
Chloroform	ND	ug/kg	5.0	1		12/18/13 02:51	67-66-3	
Chloromethane	ND	ug/kg	5.0	1		12/18/13 02:51	74-87-3	
2-Chlorotoluene	ND	ug/kg	5.0	1		12/18/13 02:51	95-49-8	
4-Chlorotoluene	ND	ug/kg	5.0	1		12/18/13 02:51	106-43-4	
Dibromochloromethane	ND	ug/kg	5.0	1		12/18/13 02:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/kg	5.0	1		12/18/13 02:51	106-93-4	
Dibromomethane	ND	ug/kg	5.0	1		12/18/13 02:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/kg	100	1		12/18/13 02:51	110-57-6	
Dichlorodifluoromethane	ND	ug/kg	5.0	1		12/18/13 02:51	75-71-8	
1,1-Dichloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	107-06-2	
1,1-Dichloroethene	ND	ug/kg	5.0	1		12/18/13 02:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1		12/18/13 02:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1		12/18/13 02:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	1		12/18/13 02:51	78-87-5	
1,3-Dichloropropane	ND	ug/kg	5.0	1		12/18/13 02:51	142-28-9	
2,2-Dichloropropane	ND	ug/kg	5.0	1		12/18/13 02:51	594-20-7	
1,1-Dichloropropene	ND	ug/kg	5.0	1		12/18/13 02:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	1		12/18/13 02:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1		12/18/13 02:51	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	100-41-4	
Ethyl methacrylate	ND	ug/kg	100	1		12/18/13 02:51	97-63-2	
Hexachloro-1,3-butadiene	ND	ug/kg	5.0	1		12/18/13 02:51	87-68-3	
n-Hexane	ND	ug/kg	5.0	1		12/18/13 02:51	110-54-3	N2
2-Hexanone	ND	ug/kg	100	1		12/18/13 02:51	591-78-6	
Iodomethane	ND	ug/kg	100	1		12/18/13 02:51	74-88-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Sample: TRIP BLANK **Lab ID: 5090811015** Collected: 12/04/13 10:00 Received: 12/05/13 09:58 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA		Analytical Method: EPA 8260						
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1		12/18/13 02:51	98-82-8	
p-Isopropyltoluene	ND	ug/kg	5.0	1		12/18/13 02:51	99-87-6	
Methylene Chloride	ND	ug/kg	20.0	1		12/18/13 02:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	25.0	1		12/18/13 02:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	1		12/18/13 02:51	1634-04-4	
Naphthalene	ND	ug/kg	5.0	1		12/18/13 02:51	91-20-3	
n-Propylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	103-65-1	
Styrene	ND	ug/kg	5.0	1		12/18/13 02:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1		12/18/13 02:51	127-18-4	
Toluene	ND	ug/kg	5.0	1		12/18/13 02:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	1		12/18/13 02:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	1		12/18/13 02:51	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1		12/18/13 02:51	79-01-6	
Trichlorofluoromethane	ND	ug/kg	5.0	1		12/18/13 02:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/kg	5.0	1		12/18/13 02:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	1		12/18/13 02:51	108-67-8	
Vinyl acetate	ND	ug/kg	100	1		12/18/13 02:51	108-05-4	
Vinyl chloride	ND	ug/kg	5.0	1		12/18/13 02:51	75-01-4	
Xylene (Total)	ND	ug/kg	10.0	1		12/18/13 02:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	113 %.		85-118	1		12/18/13 02:51	1868-53-7	
Toluene-d8 (S)	94 %.		71-128	1		12/18/13 02:51	2037-26-5	
4-Bromofluorobenzene (S)	105 %.		56-144	1		12/18/13 02:51	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

QC Batch: MPRP/12578 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 5090811001, 5090811002, 5090811003, 5090811004, 5090811005, 5090811006, 5090811007, 5090811008, 5090811009, 5090811010, 5090811011, 5090811012, 5090811013, 5090811014

METHOD BLANK: 1023536 Matrix: Solid
Associated Lab Samples: 5090811001, 5090811002, 5090811003, 5090811004, 5090811005, 5090811006, 5090811007, 5090811008, 5090811009, 5090811010, 5090811011, 5090811012, 5090811013, 5090811014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	ND	1.0	12/09/13 12:00	

LABORATORY CONTROL SAMPLE: 1023537

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	51.8	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1023538 1023539

Parameter	Units	5090811005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	7.3	50	52.2	51.2	52.0	88	86	75-125	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: MSV/60205

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5090811001, 5090811002

METHOD BLANK: 1026791

Matrix: Solid

Associated Lab Samples: 5090811001, 5090811002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,1-Dichloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,1-Dichloroethene	ug/kg	ND	5.0	12/12/13 16:37	
1,1-Dichloropropene	ug/kg	ND	5.0	12/12/13 16:37	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/12/13 16:37	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/12/13 16:37	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,2-Dichloroethane	ug/kg	ND	5.0	12/12/13 16:37	
1,2-Dichloropropane	ug/kg	ND	5.0	12/12/13 16:37	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
1,3-Dichloropropane	ug/kg	ND	5.0	12/12/13 16:37	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
2,2-Dichloropropane	ug/kg	ND	5.0	12/12/13 16:37	
2-Butanone (MEK)	ug/kg	ND	25.0	12/12/13 16:37	
2-Chlorotoluene	ug/kg	ND	5.0	12/12/13 16:37	
2-Hexanone	ug/kg	ND	100	12/12/13 16:37	
4-Chlorotoluene	ug/kg	ND	5.0	12/12/13 16:37	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/12/13 16:37	
Acetone	ug/kg	ND	100	12/12/13 16:37	
Acrolein	ug/kg	ND	100	12/12/13 16:37	
Acrylonitrile	ug/kg	ND	100	12/12/13 16:37	
Benzene	ug/kg	ND	5.0	12/12/13 16:37	
Bromobenzene	ug/kg	ND	5.0	12/12/13 16:37	
Bromochloromethane	ug/kg	ND	5.0	12/12/13 16:37	
Bromodichloromethane	ug/kg	ND	5.0	12/12/13 16:37	
Bromoform	ug/kg	ND	5.0	12/12/13 16:37	
Bromomethane	ug/kg	ND	5.0	12/12/13 16:37	
Carbon disulfide	ug/kg	ND	10.0	12/12/13 16:37	
Carbon tetrachloride	ug/kg	ND	5.0	12/12/13 16:37	
Chlorobenzene	ug/kg	ND	5.0	12/12/13 16:37	
Chloroethane	ug/kg	ND	5.0	12/12/13 16:37	
Chloroform	ug/kg	ND	5.0	12/12/13 16:37	
Chloromethane	ug/kg	ND	5.0	12/12/13 16:37	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/13 16:37	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/13 16:37	
Dibromochloromethane	ug/kg	ND	5.0	12/12/13 16:37	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

METHOD BLANK: 1026791

Matrix: Solid

Associated Lab Samples: 5090811001, 5090811002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/12/13 16:37	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/12/13 16:37	
Ethyl methacrylate	ug/kg	ND	100	12/12/13 16:37	
Ethylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/12/13 16:37	
Iodomethane	ug/kg	ND	100	12/12/13 16:37	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/12/13 16:37	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/12/13 16:37	
Methylene Chloride	ug/kg	ND	20.0	12/12/13 16:37	
n-Butylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
n-Hexane	ug/kg	ND	5.0	12/12/13 16:37	N2
n-Propylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
Naphthalene	ug/kg	ND	5.0	12/12/13 16:37	
p-Isopropyltoluene	ug/kg	ND	5.0	12/12/13 16:37	
sec-Butylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
Styrene	ug/kg	ND	5.0	12/12/13 16:37	
tert-Butylbenzene	ug/kg	ND	5.0	12/12/13 16:37	
Tetrachloroethene	ug/kg	ND	5.0	12/12/13 16:37	
Toluene	ug/kg	ND	5.0	12/12/13 16:37	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/12/13 16:37	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/12/13 16:37	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/12/13 16:37	
Trichloroethene	ug/kg	ND	5.0	12/12/13 16:37	
Trichlorofluoromethane	ug/kg	ND	5.0	12/12/13 16:37	
Vinyl acetate	ug/kg	ND	100	12/12/13 16:37	
Vinyl chloride	ug/kg	ND	5.0	12/12/13 16:37	
Xylene (Total)	ug/kg	ND	10.0	12/12/13 16:37	
4-Bromofluorobenzene (S)	%	102	56-144	12/12/13 16:37	
Dibromofluoromethane (S)	%	103	85-118	12/12/13 16:37	
Toluene-d8 (S)	%	97	71-128	12/12/13 16:37	

LABORATORY CONTROL SAMPLE: 1026792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	47.8	96	62-123	
1,1,1-Trichloroethane	ug/kg	50	48.1	96	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	46.6	93	65-124	
1,1,2-Trichloroethane	ug/kg	50	44.0	88	74-129	
1,1-Dichloroethane	ug/kg	50	43.4	87	73-130	
1,1-Dichloroethene	ug/kg	50	45.2	90	66-126	
1,1-Dichloropropene	ug/kg	50	45.6	91	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	50.5	101	66-131	
1,2,3-Trichloropropane	ug/kg	50	46.7	93	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	50.5	101	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	43.0	86	67-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1026792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	45.4	91	74-120	
1,2-Dichlorobenzene	ug/kg	50	45.1	90	73-122	
1,2-Dichloroethane	ug/kg	50	47.8	96	73-127	
1,2-Dichloropropane	ug/kg	50	45.0	90	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	42.4	85	65-127	
1,3-Dichlorobenzene	ug/kg	50	44.1	88	73-121	
1,3-Dichloropropane	ug/kg	50	43.6	87	72-121	
1,4-Dichlorobenzene	ug/kg	50	45.4	91	75-119	
2,2-Dichloropropane	ug/kg	50	47.5	95	63-122	
2-Butanone (MEK)	ug/kg	250	219	88	59-139	
2-Chlorotoluene	ug/kg	50	42.4	85	72-121	
2-Hexanone	ug/kg	250	211	85	56-139	
4-Chlorotoluene	ug/kg	50	44.5	89	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	208	83	63-136	
Acetone	ug/kg	250	298	119	46-156	
Acrolein	ug/kg	1000	1100	110	47-200	
Acrylonitrile	ug/kg	1000	924	92	67-130	
Benzene	ug/kg	50	44.9	90	74-119	
Bromobenzene	ug/kg	50	45.4	91	69-129	
Bromochloromethane	ug/kg	50	41.9	84	67-129	
Bromodichloromethane	ug/kg	50	50.1	100	68-121	
Bromoform	ug/kg	50	38.7	77	49-124	
Bromomethane	ug/kg	50	53.3	107	44-142	
Carbon disulfide	ug/kg	100	101	101	61-129	
Carbon tetrachloride	ug/kg	50	48.0	96	58-127	
Chlorobenzene	ug/kg	50	45.2	90	77-122	
Chloroethane	ug/kg	50	45.8	92	59-141	
Chloroform	ug/kg	50	47.6	95	75-124	
Chloromethane	ug/kg	50	38.6	77	46-133	
cis-1,2-Dichloroethene	ug/kg	50	45.7	91	72-122	
cis-1,3-Dichloropropene	ug/kg	50	45.0	90	68-115	
Dibromochloromethane	ug/kg	50	43.6	87	60-121	
Dibromomethane	ug/kg	50	47.1	94	72-124	
Dichlorodifluoromethane	ug/kg	50	42.9	86	26-186	
Ethyl methacrylate	ug/kg	200	177	89	63-130	
Ethylbenzene	ug/kg	50	43.7	87	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	43.0	86	55-139	
Iodomethane	ug/kg	100	105	105	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	44.1	88	65-123	
Methyl-tert-butyl ether	ug/kg	100	91.7	92	68-120	
Methylene Chloride	ug/kg	50	71.5	143	57-142	L3
n-Butylbenzene	ug/kg	50	44.9	90	68-125	
n-Hexane	ug/kg	50	41.7	83	57-117	N2
n-Propylbenzene	ug/kg	50	43.5	87	68-122	
Naphthalene	ug/kg	50	53.0	106	67-131	
p-Isopropyltoluene	ug/kg	50	43.6	87	66-133	
sec-Butylbenzene	ug/kg	50	45.3	91	64-131	
Styrene	ug/kg	50	46.6	93	70-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1026792

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	42.5	85	46-124	
Tetrachloroethene	ug/kg	50	41.3	83	72-126	
Toluene	ug/kg	50	40.1	80	71-121	
trans-1,2-Dichloroethene	ug/kg	50	46.1	92	69-123	
trans-1,3-Dichloropropene	ug/kg	50	49.1	98	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	206	103	61-124	
Trichloroethene	ug/kg	50	47.1	94	74-123	
Trichlorofluoromethane	ug/kg	50	45.6	91	72-146	
Vinyl acetate	ug/kg	200	191	96	57-131	
Vinyl chloride	ug/kg	50	45.9	92	55-128	
Xylene (Total)	ug/kg	150	137	91	66-124	
4-Bromofluorobenzene (S)	%			99	56-144	
Dibromofluoromethane (S)	%			105	85-118	
Toluene-d8 (S)	%			92	71-128	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: MSV/60254 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 5090811003, 5090811004, 5090811005, 5090811007, 5090811008

METHOD BLANK: 1028004 Matrix: Solid
 Associated Lab Samples: 5090811003, 5090811004, 5090811005, 5090811007, 5090811008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,1-Dichloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,1-Dichloroethene	ug/kg	ND	5.0	12/14/13 03:28	
1,1-Dichloropropene	ug/kg	ND	5.0	12/14/13 03:28	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/14/13 03:28	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/14/13 03:28	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,2-Dichloroethane	ug/kg	ND	5.0	12/14/13 03:28	
1,2-Dichloropropane	ug/kg	ND	5.0	12/14/13 03:28	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
1,3-Dichloropropane	ug/kg	ND	5.0	12/14/13 03:28	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
2,2-Dichloropropane	ug/kg	ND	5.0	12/14/13 03:28	
2-Butanone (MEK)	ug/kg	ND	25.0	12/14/13 03:28	
2-Chlorotoluene	ug/kg	ND	5.0	12/14/13 03:28	
2-Hexanone	ug/kg	ND	100	12/14/13 03:28	
4-Chlorotoluene	ug/kg	ND	5.0	12/14/13 03:28	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/14/13 03:28	
Acetone	ug/kg	ND	100	12/14/13 03:28	
Acrolein	ug/kg	ND	100	12/14/13 03:28	
Acrylonitrile	ug/kg	ND	100	12/14/13 03:28	
Benzene	ug/kg	ND	5.0	12/14/13 03:28	
Bromobenzene	ug/kg	ND	5.0	12/14/13 03:28	
Bromochloromethane	ug/kg	ND	5.0	12/14/13 03:28	
Bromodichloromethane	ug/kg	ND	5.0	12/14/13 03:28	
Bromoform	ug/kg	ND	5.0	12/14/13 03:28	
Bromomethane	ug/kg	ND	5.0	12/14/13 03:28	
Carbon disulfide	ug/kg	ND	10.0	12/14/13 03:28	
Carbon tetrachloride	ug/kg	ND	5.0	12/14/13 03:28	
Chlorobenzene	ug/kg	ND	5.0	12/14/13 03:28	
Chloroethane	ug/kg	ND	5.0	12/14/13 03:28	
Chloroform	ug/kg	ND	5.0	12/14/13 03:28	
Chloromethane	ug/kg	ND	5.0	12/14/13 03:28	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/14/13 03:28	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/14/13 03:28	
Dibromochloromethane	ug/kg	ND	5.0	12/14/13 03:28	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

METHOD BLANK: 1028004

Matrix: Solid

Associated Lab Samples: 5090811003, 5090811004, 5090811005, 5090811007, 5090811008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/14/13 03:28	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/14/13 03:28	
Ethyl methacrylate	ug/kg	ND	100	12/14/13 03:28	
Ethylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/14/13 03:28	
Iodomethane	ug/kg	ND	100	12/14/13 03:28	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/14/13 03:28	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/14/13 03:28	
Methylene Chloride	ug/kg	ND	20.0	12/14/13 03:28	
n-Butylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
n-Hexane	ug/kg	ND	5.0	12/14/13 03:28	N2
n-Propylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
Naphthalene	ug/kg	ND	5.0	12/14/13 03:28	
p-Isopropyltoluene	ug/kg	ND	5.0	12/14/13 03:28	
sec-Butylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
Styrene	ug/kg	ND	5.0	12/14/13 03:28	
tert-Butylbenzene	ug/kg	ND	5.0	12/14/13 03:28	
Tetrachloroethene	ug/kg	ND	5.0	12/14/13 03:28	
Toluene	ug/kg	ND	5.0	12/14/13 03:28	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/14/13 03:28	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/14/13 03:28	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/14/13 03:28	
Trichloroethene	ug/kg	ND	5.0	12/14/13 03:28	
Trichlorofluoromethane	ug/kg	ND	5.0	12/14/13 03:28	
Vinyl acetate	ug/kg	ND	100	12/14/13 03:28	
Vinyl chloride	ug/kg	ND	5.0	12/14/13 03:28	
Xylene (Total)	ug/kg	ND	10.0	12/14/13 03:28	
4-Bromofluorobenzene (S)	%	99	56-144	12/14/13 03:28	
Dibromofluoromethane (S)	%	102	85-118	12/14/13 03:28	
Toluene-d8 (S)	%	97	71-128	12/14/13 03:28	

LABORATORY CONTROL SAMPLE: 1028005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	54.3	109	62-123	
1,1,1-Trichloroethane	ug/kg	50	57.8	116	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	51.6	103	65-124	
1,1,2-Trichloroethane	ug/kg	50	47.2	94	74-129	
1,1-Dichloroethane	ug/kg	50	51.5	103	73-130	
1,1-Dichloroethene	ug/kg	50	58.8	118	66-126	
1,1-Dichloropropene	ug/kg	50	52.5	105	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	54.9	110	66-131	
1,2,3-Trichloropropane	ug/kg	50	50.2	100	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	54.0	108	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	50.5	101	67-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1028005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	48.9	98	74-120	
1,2-Dichlorobenzene	ug/kg	50	52.2	104	73-122	
1,2-Dichloroethane	ug/kg	50	51.4	103	73-127	
1,2-Dichloropropane	ug/kg	50	50.7	101	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	50.7	101	65-127	
1,3-Dichlorobenzene	ug/kg	50	50.4	101	73-121	
1,3-Dichloropropane	ug/kg	50	46.9	94	72-121	
1,4-Dichlorobenzene	ug/kg	50	51.8	104	75-119	
2,2-Dichloropropane	ug/kg	50	55.5	111	63-122	
2-Butanone (MEK)	ug/kg	250	196	78	59-139	
2-Chlorotoluene	ug/kg	50	51.2	102	72-121	
2-Hexanone	ug/kg	250	193	77	56-139	
4-Chlorotoluene	ug/kg	50	51.5	103	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	189	76	63-136	
Acetone	ug/kg	250	287	115	46-156	
Acrolein	ug/kg	1000	1170	117	47-200	
Acrylonitrile	ug/kg	1000	988	99	67-130	
Benzene	ug/kg	50	52.1	104	74-119	
Bromobenzene	ug/kg	50	51.9	104	69-129	
Bromochloromethane	ug/kg	50	50.2	100	67-129	
Bromodichloromethane	ug/kg	50	55.0	110	68-121	
Bromoform	ug/kg	50	41.4	83	49-124	
Bromomethane	ug/kg	50	66.9	134	44-142	
Carbon disulfide	ug/kg	100	131	131	61-129	L3
Carbon tetrachloride	ug/kg	50	57.7	115	58-127	
Chlorobenzene	ug/kg	50	52.6	105	77-122	
Chloroethane	ug/kg	50	60.3	121	59-141	
Chloroform	ug/kg	50	54.6	109	75-124	
Chloromethane	ug/kg	50	53.0	106	46-133	
cis-1,2-Dichloroethene	ug/kg	50	53.0	106	72-122	
cis-1,3-Dichloropropene	ug/kg	50	48.4	97	68-115	
Dibromochloromethane	ug/kg	50	46.3	93	60-121	
Dibromomethane	ug/kg	50	51.4	103	72-124	
Dichlorodifluoromethane	ug/kg	50	51.4	103	26-186	
Ethyl methacrylate	ug/kg	200	176	88	63-130	
Ethylbenzene	ug/kg	50	51.5	103	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	51.0	102	55-139	
Iodomethane	ug/kg	100	147	147	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	51.7	103	65-123	
Methyl-tert-butyl ether	ug/kg	100	100	100	68-120	
Methylene Chloride	ug/kg	50	65.3	131	57-142	
n-Butylbenzene	ug/kg	50	51.8	104	68-125	
n-Hexane	ug/kg	50	53.9	108	57-117	N2
n-Propylbenzene	ug/kg	50	51.9	104	68-122	
Naphthalene	ug/kg	50	57.0	114	67-131	
p-Isopropyltoluene	ug/kg	50	52.7	105	66-133	
sec-Butylbenzene	ug/kg	50	55.2	110	64-131	
Styrene	ug/kg	50	52.4	105	70-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1028005

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	52.3	105	46-124	
Tetrachloroethene	ug/kg	50	47.1	94	72-126	
Toluene	ug/kg	50	46.6	93	71-121	
trans-1,2-Dichloroethene	ug/kg	50	59.6	119	69-123	
trans-1,3-Dichloropropene	ug/kg	50	50.4	101	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	201	100	61-124	
Trichloroethene	ug/kg	50	54.0	108	74-123	
Trichlorofluoromethane	ug/kg	50	57.9	116	72-146	
Vinyl acetate	ug/kg	200	192	96	57-131	
Vinyl chloride	ug/kg	50	59.8	120	55-128	
Xylene (Total)	ug/kg	150	157	105	66-124	
4-Bromofluorobenzene (S)	%			98	56-144	
Dibromofluoromethane (S)	%			101	85-118	
Toluene-d8 (S)	%			94	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028006 1028007

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		5090811005 Result	Spike Conc.	Spike Conc.	Result								
1,1,1,2-Tetrachloroethane	ug/kg	ND	71.9	42.2	76.1	40.6	106	96	10-129	61	20		
1,1,1-Trichloroethane	ug/kg	ND	71.9	42.2	80.0	45.2	111	107	26-143	56	20		
1,1,2,2-Tetrachloroethane	ug/kg	ND	71.9	42.2	66.2	32.4	92	77	10-156	69	20		
1,1,2-Trichloroethane	ug/kg	ND	71.9	42.2	66.0	32.9	92	78	13-156	67	20		
1,1-Dichloroethane	ug/kg	ND	71.9	42.2	71.5	40.1	99	95	36-150	56	20		
1,1-Dichloroethene	ug/kg	ND	71.9	42.2	80.9	45.9	113	109	31-146	55	20		
1,1-Dichloropropene	ug/kg	ND	71.9	42.2	73.0	41.0	101	97	26-145	56	20		
1,2,3-Trichlorobenzene	ug/kg	ND	71.9	42.2	63.1	32.4	87	76	10-119	64	20		
1,2,3-Trichloropropane	ug/kg	ND	71.9	42.2	68.6	32.4	95	77	10-168	72	20		
1,2,4-Trichlorobenzene	ug/kg	ND	71.9	42.2	62.1	33.2	86	79	10-122	61	20		
1,2,4-Trimethylbenzene	ug/kg	ND	71.9	42.2	68.9	37.3	96	89	10-139	59	20		
1,2-Dibromoethane (EDB)	ug/kg	ND	71.9	42.2	65.7	33.7	91	80	15-136	64	20		
1,2-Dichlorobenzene	ug/kg	ND	71.9	42.2	69.4	35.6	96	84	10-132	64	20		
1,2-Dichloroethane	ug/kg	ND	71.9	42.2	73.8	37.7	103	89	30-140	65	20		
1,2-Dichloropropane	ug/kg	ND	71.9	42.2	71.0	37.4	99	89	29-135	62	20		
1,3,5-Trimethylbenzene	ug/kg	ND	71.9	42.2	69.4	37.8	96	90	10-143	59	20		
1,3-Dichlorobenzene	ug/kg	ND	71.9	42.2	67.1	35.6	93	84	10-130	61	20		
1,3-Dichloropropane	ug/kg	ND	71.9	42.2	65.1	32.8	90	78	17-139	66	20		
1,4-Dichlorobenzene	ug/kg	ND	71.9	42.2	68.4	36.0	95	85	10-128	62	20		
2,2-Dichloropropane	ug/kg	ND	71.9	42.2	74.2	41.1	103	98	29-136	57	20		
2-Butanone (MEK)	ug/kg	ND	359	211	292	133	81	63	22-176	74	20		
2-Chlorotoluene	ug/kg	ND	71.9	42.2	70.2	37.4	98	89	10-146	61	20		
2-Hexanone	ug/kg	ND	359	211	253	121	70	57	12-165	71	20		
4-Chlorotoluene	ug/kg	ND	71.9	42.2	70.3	37.3	98	89	10-138	61	20		
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	359	211	248	122	69	58	22-155	68	20		
Acetone	ug/kg	ND	359	211	454	191	126	91	11-200	82	20		
Acrolein	ug/kg	ND	1440	843	1490	764	104	91	10-200	64	20		
Acrylonitrile	ug/kg	ND	1440	843	1420	690	99	82	20-150	69	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028006 1028007												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		5090811005 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Benzene	ug/kg	ND	71.9	42.2	73.3	39.7	102	94	27-140	59	20	
Bromobenzene	ug/kg	ND	71.9	42.2	69.7	36.0	97	85	10-133	64	20	
Bromochloromethane	ug/kg	ND	71.9	42.2	70.6	36.2	98	86	28-142	64	20	
Bromodichloromethane	ug/kg	ND	71.9	42.2	76.8	41.8	107	99	13-139	59	20	
Bromoform	ug/kg	ND	71.9	42.2	56.4	28.8	78	68	10-122	65	20	
Bromomethane	ug/kg	ND	71.9	42.2	87.7	51.7	122	123	10-154	52	20	
Carbon disulfide	ug/kg	ND	144	84.3	181	103	126	123	20-142	55	20	
Carbon tetrachloride	ug/kg	ND	71.9	42.2	80.1	45.9	111	109	19-135	54	20	
Chlorobenzene	ug/kg	ND	71.9	42.2	73.1	39.2	102	93	10-136	60	20	
Chloroethane	ug/kg	ND	71.9	42.2	81.6	45.9	114	109	24-161	56	20	
Chloroform	ug/kg	ND	71.9	42.2	78.8	42.4	110	101	36-138	60	20	
Chloromethane	ug/kg	ND	71.9	42.2	71.6	40.3	100	96	28-143	56	20	
cis-1,2-Dichloroethene	ug/kg	ND	71.9	42.2	74.1	39.4	103	94	29-136	61	20	
cis-1,3-Dichloropropene	ug/kg	ND	71.9	42.2	65.0	34.2	90	81	10-130	62	20	
Dibromochloromethane	ug/kg	ND	71.9	42.2	64.4	34.5	90	82	10-124	60	20	
Dibromomethane	ug/kg	ND	71.9	42.2	71.0	35.9	99	85	24-136	66	20	
Dichlorodifluoromethane	ug/kg	ND	71.9	42.2	70.9	40.7	99	97	15-187	54	20	
Ethyl methacrylate	ug/kg	ND	288	169	223	116	77	69	10-147	63	20	
Ethylbenzene	ug/kg	ND	71.9	42.2	71.3	39.6	99	94	10-144	57	20	
Hexachloro-1,3-butadiene	ug/kg	ND	71.9	42.2	66.2	35.4	92	84	10-136	61	20	
Iodomethane	ug/kg	ND	144	84.3	207	117	144	139	10-155	56	20	
Isopropylbenzene (Cumene)	ug/kg	ND	71.9	42.2	72.2	40.3	100	96	10-134	57	20	
Methyl-tert-butyl ether	ug/kg	ND	144	84.3	137	71.5	95	85	30-147	63	20	
Methylene Chloride	ug/kg	ND	71.9	42.2	87.5	47.3	122	112	23-150	60	20	
n-Butylbenzene	ug/kg	ND	71.9	42.2	66.5	37.2	92	88	10-141	57	20	
n-Hexane	ug/kg	ND	71.9	42.2	71.7	43.0	100	102	10-140	50	20	N2
n-Propylbenzene	ug/kg	ND	71.9	42.2	71.9	39.3	100	93	10-143	59	20	
Naphthalene	ug/kg	ND	71.9	42.2	65.7	30.8	91	73	10-130	72	20	
p-Isopropyltoluene	ug/kg	ND	71.9	42.2	71.1	39.0	99	93	10-146	58	20	
sec-Butylbenzene	ug/kg	ND	71.9	42.2	75.5	41.3	105	98	10-150	59	20	
Styrene	ug/kg	ND	71.9	42.2	72.9	38.9	101	92	10-138	61	20	
tert-Butylbenzene	ug/kg	ND	71.9	42.2	72.6	39.5	101	94	10-135	59	20	
Tetrachloroethene	ug/kg	ND	71.9	42.2	66.9	37.8	92	88	10-153	56	20	
Toluene	ug/kg	ND	71.9	42.2	64.5	35.6	90	84	10-140	58	20	
trans-1,2-Dichloroethene	ug/kg	ND	71.9	42.2	81.8	46.4	114	110	28-139	55	20	
trans-1,3-Dichloropropene	ug/kg	ND	71.9	42.2	67.6	34.6	94	82	10-126	65	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	288	169	249	122	87	72	10-132	69	20	
Trichloroethene	ug/kg	ND	71.9	42.2	75.3	41.9	105	99	17-148	57	20	
Trichlorofluoromethane	ug/kg	ND	71.9	42.2	81.3	46.8	113	111	31-177	54	20	
Vinyl acetate	ug/kg	ND	288	169	89J	84.8	31	50	10-131		20	
Vinyl chloride	ug/kg	ND	71.9	42.2	81.4	46.4	113	110	30-145	55	20	
Xylene (Total)	ug/kg	ND	215	126	220	120	102	95	10-143	58	20	
4-Bromofluorobenzene (S)	%						96	97	56-144		20	
Dibromofluoromethane (S)	%						101	103	85-118		20	2d
Toluene-d8 (S)	%						94	95	71-128		20	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: MSV/60276 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
 Associated Lab Samples: 5090811006, 5090811009, 5090811010, 5090811011, 5090811012, 5090811013, 5090811014

METHOD BLANK: 1028780 Matrix: Solid
 Associated Lab Samples: 5090811006, 5090811009, 5090811010, 5090811011, 5090811012, 5090811013, 5090811014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,1-Dichloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,1-Dichloroethene	ug/kg	ND	5.0	12/16/13 14:20	
1,1-Dichloropropene	ug/kg	ND	5.0	12/16/13 14:20	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/16/13 14:20	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/16/13 14:20	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,2-Dichloroethane	ug/kg	ND	5.0	12/16/13 14:20	
1,2-Dichloropropane	ug/kg	ND	5.0	12/16/13 14:20	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
1,3-Dichloropropane	ug/kg	ND	5.0	12/16/13 14:20	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
2,2-Dichloropropane	ug/kg	ND	5.0	12/16/13 14:20	
2-Butanone (MEK)	ug/kg	ND	25.0	12/16/13 14:20	
2-Chlorotoluene	ug/kg	ND	5.0	12/16/13 14:20	
2-Hexanone	ug/kg	ND	100	12/16/13 14:20	
4-Chlorotoluene	ug/kg	ND	5.0	12/16/13 14:20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/16/13 14:20	
Acetone	ug/kg	ND	100	12/16/13 14:20	
Acrolein	ug/kg	ND	100	12/16/13 14:20	
Acrylonitrile	ug/kg	ND	100	12/16/13 14:20	
Benzene	ug/kg	ND	5.0	12/16/13 14:20	
Bromobenzene	ug/kg	ND	5.0	12/16/13 14:20	
Bromochloromethane	ug/kg	ND	5.0	12/16/13 14:20	
Bromodichloromethane	ug/kg	ND	5.0	12/16/13 14:20	
Bromoform	ug/kg	ND	5.0	12/16/13 14:20	
Bromomethane	ug/kg	ND	5.0	12/16/13 14:20	
Carbon disulfide	ug/kg	ND	10.0	12/16/13 14:20	
Carbon tetrachloride	ug/kg	ND	5.0	12/16/13 14:20	
Chlorobenzene	ug/kg	ND	5.0	12/16/13 14:20	
Chloroethane	ug/kg	ND	5.0	12/16/13 14:20	
Chloroform	ug/kg	ND	5.0	12/16/13 14:20	
Chloromethane	ug/kg	ND	5.0	12/16/13 14:20	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/13 14:20	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/13 14:20	
Dibromochloromethane	ug/kg	ND	5.0	12/16/13 14:20	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

METHOD BLANK: 1028780

Matrix: Solid

Associated Lab Samples: 5090811006, 5090811009, 5090811010, 5090811011, 5090811012, 5090811013, 5090811014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/16/13 14:20	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/16/13 14:20	
Ethyl methacrylate	ug/kg	ND	100	12/16/13 14:20	
Ethylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/16/13 14:20	
Iodomethane	ug/kg	ND	100	12/16/13 14:20	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/16/13 14:20	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/16/13 14:20	
Methylene Chloride	ug/kg	ND	20.0	12/16/13 14:20	
n-Butylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
n-Hexane	ug/kg	ND	5.0	12/16/13 14:20	N2
n-Propylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
Naphthalene	ug/kg	ND	5.0	12/16/13 14:20	
p-Isopropyltoluene	ug/kg	ND	5.0	12/16/13 14:20	
sec-Butylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
Styrene	ug/kg	ND	5.0	12/16/13 14:20	
tert-Butylbenzene	ug/kg	ND	5.0	12/16/13 14:20	
Tetrachloroethene	ug/kg	ND	5.0	12/16/13 14:20	
Toluene	ug/kg	ND	5.0	12/16/13 14:20	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/16/13 14:20	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/16/13 14:20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/16/13 14:20	
Trichloroethene	ug/kg	ND	5.0	12/16/13 14:20	
Trichlorofluoromethane	ug/kg	ND	5.0	12/16/13 14:20	
Vinyl acetate	ug/kg	ND	100	12/16/13 14:20	
Vinyl chloride	ug/kg	ND	5.0	12/16/13 14:20	
Xylene (Total)	ug/kg	ND	10.0	12/16/13 14:20	
4-Bromofluorobenzene (S)	%	103	56-144	12/16/13 14:20	
Dibromofluoromethane (S)	%	107	85-118	12/16/13 14:20	
Toluene-d8 (S)	%	95	71-128	12/16/13 14:20	

LABORATORY CONTROL SAMPLE: 1028781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	56.2	112	62-123	
1,1,1-Trichloroethane	ug/kg	50	58.1	116	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	53.4	107	65-124	
1,1,2-Trichloroethane	ug/kg	50	50.4	101	74-129	
1,1-Dichloroethane	ug/kg	50	50.8	102	73-130	
1,1-Dichloroethene	ug/kg	50	53.6	107	66-126	
1,1-Dichloropropene	ug/kg	50	52.4	105	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	58.0	116	66-131	
1,2,3-Trichloropropane	ug/kg	50	53.1	106	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	57.6	115	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	49.3	99	67-126	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1028781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	51.8	104	74-120	
1,2-Dichlorobenzene	ug/kg	50	51.0	102	73-122	
1,2-Dichloroethane	ug/kg	50	55.2	110	73-127	
1,2-Dichloropropane	ug/kg	50	50.6	101	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	48.7	97	65-127	
1,3-Dichlorobenzene	ug/kg	50	49.7	99	73-121	
1,3-Dichloropropane	ug/kg	50	49.7	99	72-121	
1,4-Dichlorobenzene	ug/kg	50	51.6	103	75-119	
2,2-Dichloropropane	ug/kg	50	58.7	117	63-122	
2-Butanone (MEK)	ug/kg	250	236	94	59-139	
2-Chlorotoluene	ug/kg	50	49.0	98	72-121	
2-Hexanone	ug/kg	250	229	91	56-139	
4-Chlorotoluene	ug/kg	50	50.6	101	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	221	88	63-136	
Acetone	ug/kg	250	336	134	46-156	
Acrolein	ug/kg	1000	1290	129	47-200	
Acrylonitrile	ug/kg	1000	1050	105	67-130	
Benzene	ug/kg	50	51.7	103	74-119	
Bromobenzene	ug/kg	50	50.9	102	69-129	
Bromochloromethane	ug/kg	50	45.6	91	67-129	
Bromodichloromethane	ug/kg	50	58.5	117	68-121	
Bromoform	ug/kg	50	45.8	92	49-124	
Bromomethane	ug/kg	50	63.0	126	44-142	
Carbon disulfide	ug/kg	100	117	117	61-129	
Carbon tetrachloride	ug/kg	50	58.2	116	58-127	
Chlorobenzene	ug/kg	50	52.0	104	77-122	
Chloroethane	ug/kg	50	52.9	106	59-141	
Chloroform	ug/kg	50	54.7	109	75-124	
Chloromethane	ug/kg	50	44.5	89	46-133	
cis-1,2-Dichloroethene	ug/kg	50	52.5	105	72-122	
cis-1,3-Dichloropropene	ug/kg	50	52.5	105	68-115	
Dibromochloromethane	ug/kg	50	52.0	104	60-121	
Dibromomethane	ug/kg	50	53.6	107	72-124	
Dichlorodifluoromethane	ug/kg	50	48.0	96	26-186	
Ethyl methacrylate	ug/kg	200	197	98	63-130	
Ethylbenzene	ug/kg	50	50.6	101	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	49.5	99	55-139	
Iodomethane	ug/kg	100	115	115	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	50.6	101	65-123	
Methyl-tert-butyl ether	ug/kg	100	109	109	68-120	
Methylene Chloride	ug/kg	50	61.0	122	57-142	
n-Butylbenzene	ug/kg	50	51.1	102	68-125	
n-Hexane	ug/kg	50	48.1	96	57-117 N2	
n-Propylbenzene	ug/kg	50	49.9	100	68-122	
Naphthalene	ug/kg	50	61.4	123	67-131	
p-Isopropyltoluene	ug/kg	50	50.9	102	66-133	
sec-Butylbenzene	ug/kg	50	52.4	105	64-131	
Styrene	ug/kg	50	52.6	105	70-126	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1028781

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	49.6	99	46-124	
Tetrachloroethene	ug/kg	50	46.5	93	72-126	
Toluene	ug/kg	50	45.2	90	71-121	
trans-1,2-Dichloroethene	ug/kg	50	53.7	107	69-123	
trans-1,3-Dichloropropene	ug/kg	50	57.7	115	66-114	L3
trans-1,4-Dichloro-2-butene	ug/kg	200	231	115	61-124	
Trichloroethene	ug/kg	50	54.4	109	74-123	
Trichlorofluoromethane	ug/kg	50	55.3	111	72-146	
Vinyl acetate	ug/kg	200	216	108	57-131	
Vinyl chloride	ug/kg	50	53.6	107	55-128	
Xylene (Total)	ug/kg	150	156	104	66-124	
4-Bromofluorobenzene (S)	%			100	56-144	
Dibromofluoromethane (S)	%			104	85-118	
Toluene-d8 (S)	%			92	71-128	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: MSV/60357

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 5090811015

METHOD BLANK: 1029711

Matrix: Solid

Associated Lab Samples: 5090811015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,1,1-Trichloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,1,2,2-Tetrachloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,1,2-Trichloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,1-Dichloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,1-Dichloroethene	ug/kg	ND	5.0	12/18/13 02:16	
1,1-Dichloropropene	ug/kg	ND	5.0	12/18/13 02:16	
1,2,3-Trichlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,2,3-Trichloropropane	ug/kg	ND	5.0	12/18/13 02:16	
1,2,4-Trichlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,2,4-Trimethylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,2-Dibromoethane (EDB)	ug/kg	ND	5.0	12/18/13 02:16	
1,2-Dichlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,2-Dichloroethane	ug/kg	ND	5.0	12/18/13 02:16	
1,2-Dichloropropane	ug/kg	ND	5.0	12/18/13 02:16	
1,3,5-Trimethylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,3-Dichlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
1,3-Dichloropropane	ug/kg	ND	5.0	12/18/13 02:16	
1,4-Dichlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
2,2-Dichloropropane	ug/kg	ND	5.0	12/18/13 02:16	
2-Butanone (MEK)	ug/kg	ND	25.0	12/18/13 02:16	
2-Chlorotoluene	ug/kg	ND	5.0	12/18/13 02:16	
2-Hexanone	ug/kg	ND	100	12/18/13 02:16	
4-Chlorotoluene	ug/kg	ND	5.0	12/18/13 02:16	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	25.0	12/18/13 02:16	
Acetone	ug/kg	ND	100	12/18/13 02:16	
Acrolein	ug/kg	ND	100	12/18/13 02:16	
Acrylonitrile	ug/kg	ND	100	12/18/13 02:16	
Benzene	ug/kg	ND	5.0	12/18/13 02:16	
Bromobenzene	ug/kg	ND	5.0	12/18/13 02:16	
Bromochloromethane	ug/kg	ND	5.0	12/18/13 02:16	
Bromodichloromethane	ug/kg	ND	5.0	12/18/13 02:16	
Bromoform	ug/kg	ND	5.0	12/18/13 02:16	
Bromomethane	ug/kg	ND	5.0	12/18/13 02:16	
Carbon disulfide	ug/kg	ND	10.0	12/18/13 02:16	
Carbon tetrachloride	ug/kg	ND	5.0	12/18/13 02:16	
Chlorobenzene	ug/kg	ND	5.0	12/18/13 02:16	
Chloroethane	ug/kg	ND	5.0	12/18/13 02:16	
Chloroform	ug/kg	ND	5.0	12/18/13 02:16	
Chloromethane	ug/kg	ND	5.0	12/18/13 02:16	
cis-1,2-Dichloroethene	ug/kg	ND	5.0	12/18/13 02:16	
cis-1,3-Dichloropropene	ug/kg	ND	5.0	12/18/13 02:16	
Dibromochloromethane	ug/kg	ND	5.0	12/18/13 02:16	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

METHOD BLANK: 1029711

Matrix: Solid

Associated Lab Samples: 5090811015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/kg	ND	5.0	12/18/13 02:16	
Dichlorodifluoromethane	ug/kg	ND	5.0	12/18/13 02:16	
Ethyl methacrylate	ug/kg	ND	100	12/18/13 02:16	
Ethylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
Hexachloro-1,3-butadiene	ug/kg	ND	5.0	12/18/13 02:16	
Iodomethane	ug/kg	ND	100	12/18/13 02:16	
Isopropylbenzene (Cumene)	ug/kg	ND	5.0	12/18/13 02:16	
Methyl-tert-butyl ether	ug/kg	ND	5.0	12/18/13 02:16	
Methylene Chloride	ug/kg	ND	20.0	12/18/13 02:16	
n-Butylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
n-Hexane	ug/kg	ND	5.0	12/18/13 02:16	N2
n-Propylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
Naphthalene	ug/kg	ND	5.0	12/18/13 02:16	
p-Isopropyltoluene	ug/kg	ND	5.0	12/18/13 02:16	
sec-Butylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
Styrene	ug/kg	ND	5.0	12/18/13 02:16	
tert-Butylbenzene	ug/kg	ND	5.0	12/18/13 02:16	
Tetrachloroethene	ug/kg	ND	5.0	12/18/13 02:16	
Toluene	ug/kg	ND	5.0	12/18/13 02:16	
trans-1,2-Dichloroethene	ug/kg	ND	5.0	12/18/13 02:16	
trans-1,3-Dichloropropene	ug/kg	ND	5.0	12/18/13 02:16	
trans-1,4-Dichloro-2-butene	ug/kg	ND	100	12/18/13 02:16	
Trichloroethene	ug/kg	ND	5.0	12/18/13 02:16	
Trichlorofluoromethane	ug/kg	ND	5.0	12/18/13 02:16	
Vinyl acetate	ug/kg	ND	100	12/18/13 02:16	
Vinyl chloride	ug/kg	ND	5.0	12/18/13 02:16	
Xylene (Total)	ug/kg	ND	10.0	12/18/13 02:16	
4-Bromofluorobenzene (S)	%	103	56-144	12/18/13 02:16	
Dibromofluoromethane (S)	%	104	85-118	12/18/13 02:16	
Toluene-d8 (S)	%	97	71-128	12/18/13 02:16	

LABORATORY CONTROL SAMPLE: 1029712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	50	55.0	110	62-123	
1,1,1-Trichloroethane	ug/kg	50	53.8	108	70-123	
1,1,2,2-Tetrachloroethane	ug/kg	50	53.1	106	65-124	
1,1,2-Trichloroethane	ug/kg	50	49.0	98	74-129	
1,1-Dichloroethane	ug/kg	50	47.6	95	73-130	
1,1-Dichloroethene	ug/kg	50	52.3	105	66-126	
1,1-Dichloropropene	ug/kg	50	48.9	98	78-125	
1,2,3-Trichlorobenzene	ug/kg	50	55.9	112	66-131	
1,2,3-Trichloropropane	ug/kg	50	53.3	107	44-157	
1,2,4-Trichlorobenzene	ug/kg	50	53.8	108	68-129	
1,2,4-Trimethylbenzene	ug/kg	50	46.8	94	67-126	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1029712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/kg	50	50.7	101	74-120	
1,2-Dichlorobenzene	ug/kg	50	49.8	100	73-122	
1,2-Dichloroethane	ug/kg	50	50.7	101	73-127	
1,2-Dichloropropane	ug/kg	50	49.0	98	75-118	
1,3,5-Trimethylbenzene	ug/kg	50	46.6	93	65-127	
1,3-Dichlorobenzene	ug/kg	50	47.4	95	73-121	
1,3-Dichloropropane	ug/kg	50	47.8	96	72-121	
1,4-Dichlorobenzene	ug/kg	50	49.1	98	75-119	
2,2-Dichloropropane	ug/kg	50	49.6	99	63-122	
2-Butanone (MEK)	ug/kg	250	230	92	59-139	
2-Chlorotoluene	ug/kg	50	46.9	94	72-121	
2-Hexanone	ug/kg	250	234	94	56-139	
4-Chlorotoluene	ug/kg	50	47.9	96	75-123	
4-Methyl-2-pentanone (MIBK)	ug/kg	250	223	89	63-136	
Acetone	ug/kg	250	318	127	46-156	
Acrolein	ug/kg	1000	1280	128	47-200	
Acrylonitrile	ug/kg	1000	1010	101	67-130	
Benzene	ug/kg	50	48.8	98	74-119	
Bromobenzene	ug/kg	50	48.4	97	69-129	
Bromochloromethane	ug/kg	50	39.2	78	67-129	
Bromodichloromethane	ug/kg	50	55.3	111	68-121	
Bromoform	ug/kg	50	44.7	89	49-124	
Bromomethane	ug/kg	50	52.1	104	44-142	
Carbon disulfide	ug/kg	100	111	111	61-129	
Carbon tetrachloride	ug/kg	50	54.7	109	58-127	
Chlorobenzene	ug/kg	50	50.7	101	77-122	
Chloroethane	ug/kg	50	50.7	101	59-141	
Chloroform	ug/kg	50	52.1	104	75-124	
Chloromethane	ug/kg	50	41.0	82	46-133	
cis-1,2-Dichloroethene	ug/kg	50	50.5	101	72-122	
cis-1,3-Dichloropropene	ug/kg	50	49.2	98	68-115	
Dibromochloromethane	ug/kg	50	51.0	102	60-121	
Dibromomethane	ug/kg	50	51.2	102	72-124	
Dichlorodifluoromethane	ug/kg	50	40.1	80	26-186	
Ethyl methacrylate	ug/kg	200	194	97	63-130	
Ethylbenzene	ug/kg	50	48.8	98	72-123	
Hexachloro-1,3-butadiene	ug/kg	50	47.7	95	55-139	
Iodomethane	ug/kg	100	91.4J	91	38-149	
Isopropylbenzene (Cumene)	ug/kg	50	48.6	97	65-123	
Methyl-tert-butyl ether	ug/kg	100	103	103	68-120	
Methylene Chloride	ug/kg	50	61.2	122	57-142	
n-Butylbenzene	ug/kg	50	47.4	95	68-125	
n-Hexane	ug/kg	50	45.4	91	57-117 N2	
n-Propylbenzene	ug/kg	50	47.6	95	68-122	
Naphthalene	ug/kg	50	62.8	126	67-131	
p-Isopropyltoluene	ug/kg	50	48.4	97	66-133	
sec-Butylbenzene	ug/kg	50	49.9	100	64-131	
Styrene	ug/kg	50	51.4	103	70-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1029712

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/kg	50	48.1	96	46-124	
Tetrachloroethene	ug/kg	50	45.0	90	72-126	
Toluene	ug/kg	50	44.6	89	71-121	
trans-1,2-Dichloroethene	ug/kg	50	53.0	106	69-123	
trans-1,3-Dichloropropene	ug/kg	50	53.0	106	66-114	
trans-1,4-Dichloro-2-butene	ug/kg	200	209	104	61-124	
Trichloroethene	ug/kg	50	51.5	103	74-123	
Trichlorofluoromethane	ug/kg	50	51.2	102	72-146	
Vinyl acetate	ug/kg	200	204	102	57-131	
Vinyl chloride	ug/kg	50	49.3	99	55-128	
Xylene (Total)	ug/kg	150	151	101	66-124	
4-Bromofluorobenzene (S)	%			98	56-144	
Dibromofluoromethane (S)	%			103	85-118	
Toluene-d8 (S)	%			93	71-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1029713 1029714

Parameter	Units	MS 5090935003		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/kg	ND	49.4	44.3	44.3	43.8	47.8	89	108	10-129	9	20	
1,1,1-Trichloroethane	ug/kg	ND	49.4	44.3	44.3	48.3	51.1	98	115	26-143	6	20	
1,1,2,2-Tetrachloroethane	ug/kg	ND	49.4	44.3	44.3	45.8	45.2	93	102	10-156	1	20	
1,1,2-Trichloroethane	ug/kg	ND	49.4	44.3	44.3	43.1	43.3	87	98	13-156	1	20	
1,1-Dichloroethane	ug/kg	ND	49.4	44.3	44.3	46.4	45.2	94	102	36-150	3	20	
1,1-Dichloroethene	ug/kg	ND	49.4	44.3	44.3	49.3	49.9	100	113	31-146	1	20	
1,1-Dichloropropene	ug/kg	ND	49.4	44.3	44.3	42.7	45.9	86	103	26-145	7	20	
1,2,3-Trichlorobenzene	ug/kg	ND	49.4	44.3	44.3	25.6	38.6	52	87	10-119	40	20	
1,2,3-Trichloropropane	ug/kg	ND	49.4	44.3	44.3	46.7	45.1	94	102	10-168	3	20	
1,2,4-Trichlorobenzene	ug/kg	ND	49.4	44.3	44.3	24.6	38.9	50	88	10-122	45	20	
1,2,4-Trimethylbenzene	ug/kg	ND	49.4	44.3	44.3	29.1	42.9	59	97	10-139	38	20	
1,2-Dibromoethane (EDB)	ug/kg	ND	49.4	44.3	44.3	43.1	42.8	87	97	15-136	1	20	
1,2-Dichlorobenzene	ug/kg	ND	49.4	44.3	44.3	31.2	41.9	63	95	10-132	29	20	
1,2-Dichloroethane	ug/kg	ND	49.4	44.3	44.3	47.6	46.8	96	106	30-140	2	20	
1,2-Dichloropropane	ug/kg	ND	49.4	44.3	44.3	43.0	42.8	87	96	29-135	1	20	
1,3,5-Trimethylbenzene	ug/kg	ND	49.4	44.3	44.3	29.0	43.2	59	97	10-143	39	20	
1,3-Dichlorobenzene	ug/kg	ND	49.4	44.3	44.3	28.3	41.0	57	93	10-130	37	20	
1,3-Dichloropropane	ug/kg	ND	49.4	44.3	44.3	40.8	41.3	82	93	17-139	1	20	
1,4-Dichlorobenzene	ug/kg	ND	49.4	44.3	44.3	28.5	41.8	58	94	10-128	38	20	
2,2-Dichloropropane	ug/kg	ND	49.4	44.3	44.3	46.0	47.1	93	106	29-136	2	20	
2-Butanone (MEK)	ug/kg	ND	247	221	221	212	190	86	86	22-176	11	20	
2-Chlorotoluene	ug/kg	ND	49.4	44.3	44.3	29.9	42.5	61	96	10-146	35	20	
2-Hexanone	ug/kg	ND	247	221	221	195	179	79	81	12-165	8	20	
4-Chlorotoluene	ug/kg	ND	49.4	44.3	44.3	29.2	42.9	59	97	10-138	38	20	
4-Methyl-2-pentanone (MIBK)	ug/kg	ND	247	221	221	198	183	80	82	22-155	8	20	
Acetone	ug/kg	ND	247	221	221	352	305	142	138	11-200	14	20	
Acrolein	ug/kg	ND	990	887	887	982	874	99	99	10-200	12	20	
Acrylonitrile	ug/kg	ND	990	887	887	906	824	92	93	20-150	9	20	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152
Pace Project No.: 5090811

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1029713 1029714												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		5090935003 Result	Spike Conc.	Spike Conc.	MS Result							
Benzene	ug/kg	ND	49.4	44.3	42.6	44.5	86	100	27-140	4	20	
Bromobenzene	ug/kg	ND	49.4	44.3	32.2	41.7	65	94	10-133	25	20	
Bromochloromethane	ug/kg	ND	49.4	44.3	41.3	37.9	83	86	28-142	8	20	
Bromodichloromethane	ug/kg	ND	49.4	44.3	48.1	49.2	97	111	13-139	2	20	
Bromoform	ug/kg	ND	49.4	44.3	38.5	40.5	78	91	10-122	5	20	
Bromomethane	ug/kg	ND	49.4	44.3	45.8	48.2	93	109	10-154	5	20	
Carbon disulfide	ug/kg	ND	99	88.7	94.8	101	96	114	20-142	7	20	
Carbon tetrachloride	ug/kg	ND	49.4	44.3	47.7	51.2	96	116	19-135	7	20	
Chlorobenzene	ug/kg	ND	49.4	44.3	36.6	45.0	74	101	10-136	21	20	
Chloroethane	ug/kg	ND	49.4	44.3	48.1	46.0	97	104	24-161	5	20	
Chloroform	ug/kg	ND	49.4	44.3	48.4	49.0	98	110	36-138	1	20	
Chloromethane	ug/kg	ND	49.4	44.3	39.5	37.5	80	85	28-143	5	20	
cis-1,2-Dichloroethene	ug/kg	ND	49.4	44.3	44.8	46.1	91	104	29-136	3	20	
cis-1,3-Dichloropropene	ug/kg	ND	49.4	44.3	38.7	40.9	78	92	10-130	6	20	
Dibromochloromethane	ug/kg	ND	49.4	44.3	41.4	43.3	84	98	10-124	5	20	
Dibromomethane	ug/kg	ND	49.4	44.3	46.0	44.5	93	100	24-136	3	20	
Dichlorodifluoromethane	ug/kg	ND	49.4	44.3	40.6	38.7	82	87	15-187	5	20	
Ethyl methacrylate	ug/kg	ND	198	178	86.4J	68.6J	44	39	10-147		20	
Ethylbenzene	ug/kg	ND	49.4	44.3	34.6	44.5	70	100	10-144	25	20	
Hexachloro-1,3-butadiene	ug/kg	ND	49.4	44.3	20.0	43.5	40	98	10-136	74	20	
Iodomethane	ug/kg	ND	99	88.7	83J	83.8J	84	94	10-155		20	
Isopropylbenzene (Cumene)	ug/kg	ND	49.4	44.3	32.9	45.8	66	103	10-134	33	20	
Methyl-tert-butyl ether	ug/kg	ND	99	88.7	100	92.1	101	104	30-147	8	20	
Methylene Chloride	ug/kg	ND	49.4	44.3	56.8	56.8	110	122	23-150	0	20	
n-Butylbenzene	ug/kg	ND	49.4	44.3	23.1	43.8	47	99	10-141	62	20	
n-Hexane	ug/kg	ND	49.4	44.3	43.7	45.5	88	103	10-140	4	20	N2
n-Propylbenzene	ug/kg	ND	49.4	44.3	29.2	44.6	59	101	10-143	42	20	
Naphthalene	ug/kg	ND	49.4	44.3	31.0	40.1	63	91	10-130	26	20	
p-Isopropyltoluene	ug/kg	ND	49.4	44.3	26.9	45.3	54	102	10-146	51	20	
sec-Butylbenzene	ug/kg	ND	49.4	44.3	29.0	47.4	59	107	10-150	48	20	
Styrene	ug/kg	ND	49.4	44.3	35.0	43.7	71	99	10-138	22	20	
tert-Butylbenzene	ug/kg	ND	49.4	44.3	30.1	45.4	61	102	10-135	41	20	
Tetrachloroethene	ug/kg	ND	49.4	44.3	35.7	43.7	72	99	10-153	20	20	
Toluene	ug/kg	ND	49.4	44.3	35.2	40.4	71	91	10-140	14	20	
trans-1,2-Dichloroethene	ug/kg	ND	49.4	44.3	49.1	50.3	99	114	28-139	3	20	
trans-1,3-Dichloropropene	ug/kg	ND	49.4	44.3	40.8	43.6	82	98	10-126	7	20	
trans-1,4-Dichloro-2-butene	ug/kg	ND	198	178	158	160	80	90	10-132	1	20	
Trichloroethene	ug/kg	ND	49.4	44.3	42.8	48.0	87	108	17-148	12	20	
Trichlorofluoromethane	ug/kg	ND	49.4	44.3	52.7	51.3	107	116	31-177	3	20	
Vinyl acetate	ug/kg	ND	198	178	ND	ND	9	5	10-131		20	M0
Vinyl chloride	ug/kg	ND	49.4	44.3	47.6	46.4	96	105	30-145	3	20	
Xylene (Total)	ug/kg	ND	149	133	106	137	71	103	10-143	26	20	
4-Bromofluorobenzene (S)	%						97	97	56-144		20	
Dibromofluoromethane (S)	%						105	105	85-118		20	3d
Toluene-d8 (S)	%						95	93	71-128		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: OEXT/34570 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
 Associated Lab Samples: 5090811001, 5090811002, 5090811003, 5090811004, 5090811005, 5090811006, 5090811007, 5090811008, 5090811009, 5090811010, 5090811011

METHOD BLANK: 1023349 Matrix: Solid
 Associated Lab Samples: 5090811001, 5090811002, 5090811003, 5090811004, 5090811005, 5090811006, 5090811007, 5090811008, 5090811009, 5090811010, 5090811011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	12/09/13 05:37	N2
2-Methylnaphthalene	ug/kg	ND	5.0	12/09/13 05:37	
Acenaphthene	ug/kg	ND	5.0	12/09/13 05:37	
Acenaphthylene	ug/kg	ND	5.0	12/09/13 05:37	
Anthracene	ug/kg	ND	5.0	12/09/13 05:37	
Benzo(a)anthracene	ug/kg	ND	5.0	12/09/13 05:37	
Benzo(a)pyrene	ug/kg	ND	5.0	12/09/13 05:37	
Benzo(b)fluoranthene	ug/kg	ND	5.0	12/09/13 05:37	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	12/09/13 05:37	
Benzo(k)fluoranthene	ug/kg	ND	5.0	12/09/13 05:37	
Chrysene	ug/kg	ND	5.0	12/09/13 05:37	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	12/09/13 05:37	
Fluoranthene	ug/kg	ND	5.0	12/09/13 05:37	
Fluorene	ug/kg	ND	5.0	12/09/13 05:37	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	12/09/13 05:37	
Naphthalene	ug/kg	ND	5.0	12/09/13 05:37	
Phenanthrene	ug/kg	ND	5.0	12/09/13 05:37	
Pyrene	ug/kg	ND	5.0	12/09/13 05:37	
2-Fluorobiphenyl (S)	%	84	38-110	12/09/13 05:37	
p-Terphenyl-d14 (S)	%	91	32-111	12/09/13 05:37	

LABORATORY CONTROL SAMPLE: 1023350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	270	81	40-102	N2
2-Methylnaphthalene	ug/kg	333	279	84	39-104	
Acenaphthene	ug/kg	333	274	82	43-108	
Acenaphthylene	ug/kg	333	277	83	44-110	
Anthracene	ug/kg	333	302	91	44-112	
Benzo(a)anthracene	ug/kg	333	302	91	43-124	
Benzo(a)pyrene	ug/kg	333	313	94	44-124	
Benzo(b)fluoranthene	ug/kg	333	318	95	44-123	
Benzo(g,h,i)perylene	ug/kg	333	312	94	44-118	
Benzo(k)fluoranthene	ug/kg	333	316	95	42-122	
Chrysene	ug/kg	333	308	93	44-124	
Dibenz(a,h)anthracene	ug/kg	333	315	95	44-119	
Fluoranthene	ug/kg	333	306	92	45-119	
Fluorene	ug/kg	333	287	86	44-113	
Indeno(1,2,3-cd)pyrene	ug/kg	333	314	94	44-119	
Naphthalene	ug/kg	333	257	77	42-103	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1023350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	300	90	44-113	
Pyrene	ug/kg	333	306	92	45-123	
2-Fluorobiphenyl (S)	%.			81	38-110	
p-Terphenyl-d14 (S)	%.			87	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1023351 1023352

Parameter	Units	1023351		1023352		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		5090811005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
1-Methylnaphthalene	ug/kg	ND	371	371	265	268	72	72	20-116	1	20	N2
2-Methylnaphthalene	ug/kg	ND	371	371	276	278	74	75	10-131	1	20	
Acenaphthene	ug/kg	ND	371	371	262	249	71	67	25-117	5	20	
Acenaphthylene	ug/kg	ND	371	371	264	248	71	67	27-123	6	20	
Anthracene	ug/kg	ND	371	371	252	216	68	58	20-123	16	20	
Benzo(a)anthracene	ug/kg	ND	371	371	223	177	60	48	23-124	23	20	R1
Benzo(a)pyrene	ug/kg	ND	371	371	223	172	60	46	23-120	26	20	R1
Benzo(b)fluoranthene	ug/kg	ND	371	371	221	169	60	46	24-117	26	20	R1
Benzo(g,h,i)perylene	ug/kg	ND	371	371	215	162	58	44	12-122	28	20	R1
Benzo(k)fluoranthene	ug/kg	ND	371	371	232	184	63	50	14-123	23	20	R1
Chrysene	ug/kg	ND	371	371	231	183	62	49	22-124	23	20	R1
Dibenz(a,h)anthracene	ug/kg	ND	371	371	226	172	61	46	26-113	27	20	R1
Fluoranthene	ug/kg	ND	371	371	242	199	65	54	21-125	19	20	
Fluorene	ug/kg	ND	371	371	261	239	71	65	19-127	9	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	371	371	217	164	58	44	15-121	28	20	R1
Naphthalene	ug/kg	ND	371	371	261	267	70	72	15-125	2	20	
Phenanthrene	ug/kg	ND	371	371	255	223	69	60	10-139	13	20	
Pyrene	ug/kg	ND	371	371	239	198	64	53	17-132	19	20	
2-Fluorobiphenyl (S)	%.						74	74	38-110		20	
p-Terphenyl-d14 (S)	%.						66	57	32-111		20	

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch: OEXT/34575 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM
 Associated Lab Samples: 5090811012, 5090811013, 5090811014

METHOD BLANK: 1023526 Matrix: Solid

Associated Lab Samples: 5090811012, 5090811013, 5090811014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	12/08/13 14:10	N2
2-Methylnaphthalene	ug/kg	ND	5.0	12/08/13 14:10	
Acenaphthene	ug/kg	ND	5.0	12/08/13 14:10	
Acenaphthylene	ug/kg	ND	5.0	12/08/13 14:10	
Anthracene	ug/kg	ND	5.0	12/08/13 14:10	
Benzo(a)anthracene	ug/kg	ND	5.0	12/08/13 14:10	
Benzo(a)pyrene	ug/kg	ND	5.0	12/08/13 14:10	
Benzo(b)fluoranthene	ug/kg	ND	5.0	12/08/13 14:10	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	12/08/13 14:10	
Benzo(k)fluoranthene	ug/kg	ND	5.0	12/08/13 14:10	
Chrysene	ug/kg	ND	5.0	12/08/13 14:10	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	12/08/13 14:10	
Fluoranthene	ug/kg	ND	5.0	12/08/13 14:10	
Fluorene	ug/kg	ND	5.0	12/08/13 14:10	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	12/08/13 14:10	
Naphthalene	ug/kg	ND	5.0	12/08/13 14:10	
Phenanthrene	ug/kg	ND	5.0	12/08/13 14:10	
Pyrene	ug/kg	ND	5.0	12/08/13 14:10	
2-Fluorobiphenyl (S)	%	75	38-110	12/08/13 14:10	
p-Terphenyl-d14 (S)	%	80	32-111	12/08/13 14:10	

LABORATORY CONTROL SAMPLE: 1023527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	252	76	40-102	N2
2-Methylnaphthalene	ug/kg	333	263	79	39-104	
Acenaphthene	ug/kg	333	261	78	43-108	
Acenaphthylene	ug/kg	333	264	79	44-110	
Anthracene	ug/kg	333	277	83	44-112	
Benzo(a)anthracene	ug/kg	333	269	81	43-124	
Benzo(a)pyrene	ug/kg	333	280	84	44-124	
Benzo(b)fluoranthene	ug/kg	333	276	83	44-123	
Benzo(g,h,i)perylene	ug/kg	333	278	83	44-118	
Benzo(k)fluoranthene	ug/kg	333	294	88	42-122	
Chrysene	ug/kg	333	277	83	44-124	
Dibenz(a,h)anthracene	ug/kg	333	281	84	44-119	
Fluoranthene	ug/kg	333	284	85	45-119	
Fluorene	ug/kg	333	273	82	44-113	
Indeno(1,2,3-cd)pyrene	ug/kg	333	280	84	44-119	
Naphthalene	ug/kg	333	242	73	42-103	
Phenanthrene	ug/kg	333	277	83	44-113	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

LABORATORY CONTROL SAMPLE: 1023527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	281	84	45-123	
2-Fluorobiphenyl (S)	%.			77	38-110	
p-Terphenyl-d14 (S)	%.			81	32-111	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1023530 1023531

Parameter	Units	5090833002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
1-Methylnaphthalene	ug/kg	ND	345	346	258	284	73	81	20-116	10	20	N2	
2-Methylnaphthalene	ug/kg	7.5	345	346	269	296	76	83	10-131	10	20		
Acenaphthene	ug/kg	ND	345	346	264	292	76	83	25-117	10	20		
Acenaphthylene	ug/kg	ND	345	346	265	293	77	84	27-123	10	20		
Anthracene	ug/kg	5.1	345	346	283	310	80	88	20-123	9	20		
Benzo(a)anthracene	ug/kg	15.3	345	346	287	316	79	87	23-124	9	20		
Benzo(a)pyrene	ug/kg	15.0	345	346	295	322	81	89	23-120	9	20		
Benzo(b)fluoranthene	ug/kg	15.5	345	346	307	326	85	89	24-117	6	20		
Benzo(g,h,i)perylene	ug/kg	11.8	345	346	297	320	83	89	12-122	7	20		
Benzo(k)fluoranthene	ug/kg	12.9	345	346	294	325	81	90	14-123	10	20		
Chrysene	ug/kg	20.0	345	346	299	324	81	88	22-124	8	20		
Dibenz(a,h)anthracene	ug/kg	ND	345	346	292	320	85	92	26-113	9	20		
Fluoranthene	ug/kg	39.7	345	346	303	330	76	84	21-125	9	20		
Fluorene	ug/kg	ND	345	346	276	305	79	87	19-127	10	20		
Indeno(1,2,3-cd)pyrene	ug/kg	9.2	345	346	295	322	83	90	15-121	9	20		
Naphthalene	ug/kg	6.5	345	346	244	269	69	76	15-125	10	20		
Phenanthrene	ug/kg	38.8	345	346	293	327	74	83	10-139	11	20		
Pyrene	ug/kg	35.6	345	346	305	335	78	86	17-132	9	20		
2-Fluorobiphenyl (S)	%.						76	84	38-110		20		
p-Terphenyl-d14 (S)	%.						81	89	32-111		20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

QC Batch:	PMST/9018	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	5090811005		

SAMPLE DUPLICATE: 1025408

Parameter	Units	5090811005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.4	9.6	8	5	R1

SAMPLE DUPLICATE: 1025409

Parameter	Units	5091011013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.6	4.7	3	5	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- 1d Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 12/10/13
- 2d Several compounds are outside of acceptance limits for RPD value. Refer to the LCS for system control. grm 12-16-13
- 3d Several compounds are outside of acceptance limits for RPD value. Refer to the LCS for system control. grm 12-18-13
- J Analyte detected below reporting limit, therefore result is an estimate.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- N2 The lab does not hold TNI accreditation for this parameter.
- R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5090811001	HH-SB-GP-01 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811002	HH-SB-GP-02 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811003	HH-SB-GP-03 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811004	HH-SB-GP-04 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811005	HH-SB-GP-05 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811006	HH-SB-GP-06 (10-11')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811007	HH-SB-GP-07 (4-5')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811008	HH-SB-GP-08 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811009	HH-SB-GP-09 (14-15')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811010	HH-SB-GP-10 (4-5')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811011	HH-SB-GP-11 (4-5')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811012	HH-SB-GP-12 (4-5')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811013	HH-SB-GP-13 (4-5')	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811014	DUPLICATE	EPA 3050	MPRP/12578	EPA 6010	ICP/14034
5090811001	HH-SB-GP-01 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811002	HH-SB-GP-02 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811003	HH-SB-GP-03 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811004	HH-SB-GP-04 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811005	HH-SB-GP-05 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811006	HH-SB-GP-06 (10-11')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811007	HH-SB-GP-07 (4-5')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811008	HH-SB-GP-08 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811009	HH-SB-GP-09 (14-15')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811010	HH-SB-GP-10 (4-5')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811011	HH-SB-GP-11 (4-5')	EPA 3546	OEXT/34570	EPA 8270 by SIM	MSSV/14105
5090811012	HH-SB-GP-12 (4-5')	EPA 3546	OEXT/34575	EPA 8270 by SIM	MSSV/14103
5090811013	HH-SB-GP-13 (4-5')	EPA 3546	OEXT/34575	EPA 8270 by SIM	MSSV/14103
5090811014	DUPLICATE	EPA 3546	OEXT/34575	EPA 8270 by SIM	MSSV/14103
5090811001	HH-SB-GP-01 (14-15')	EPA 8260	MSV/60205		
5090811002	HH-SB-GP-02 (14-15')	EPA 8260	MSV/60205		
5090811003	HH-SB-GP-03 (14-15')	EPA 8260	MSV/60254		
5090811004	HH-SB-GP-04 (14-15')	EPA 8260	MSV/60254		
5090811005	HH-SB-GP-05 (14-15')	EPA 8260	MSV/60254		
5090811006	HH-SB-GP-06 (10-11')	EPA 8260	MSV/60276		
5090811007	HH-SB-GP-07 (4-5')	EPA 8260	MSV/60254		
5090811008	HH-SB-GP-08 (14-15')	EPA 8260	MSV/60254		
5090811009	HH-SB-GP-09 (14-15')	EPA 8260	MSV/60276		
5090811010	HH-SB-GP-10 (4-5')	EPA 8260	MSV/60276		
5090811011	HH-SB-GP-11 (4-5')	EPA 8260	MSV/60276		
5090811012	HH-SB-GP-12 (4-5')	EPA 8260	MSV/60276		
5090811013	HH-SB-GP-13 (4-5')	EPA 8260	MSV/60276		
5090811014	DUPLICATE	EPA 8260	MSV/60276		
5090811015	TRIP BLANK	EPA 8260	MSV/60357		
5090811001	HH-SB-GP-01 (14-15')	ASTM D2974-87	PMST/9010		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hitch n' Haul 4350-13-152

Pace Project No.: 5090811

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5090811002	HH-SB-GP-02 (14-15')	ASTM D2974-87	PMST/9010		
5090811003	HH-SB-GP-03 (14-15')	ASTM D2974-87	PMST/9010		
5090811004	HH-SB-GP-04 (14-15')	ASTM D2974-87	PMST/9010		
5090811005	HH-SB-GP-05 (14-15')	ASTM D2974-87	PMST/9018		
5090811006	HH-SB-GP-06 (10-11')	ASTM D2974-87	PMST/9010		
5090811007	HH-SB-GP-07 (4-5')	ASTM D2974-87	PMST/9010		
5090811008	HH-SB-GP-08 (14-15')	ASTM D2974-87	PMST/9010		
5090811009	HH-SB-GP-09 (14-15')	ASTM D2974-87	PMST/9010		
5090811010	HH-SB-GP-10 (4-5')	ASTM D2974-87	PMST/9010		
5090811011	HH-SB-GP-11 (4-5')	ASTM D2974-87	PMST/9010		
5090811012	HH-SB-GP-12 (4-5')	ASTM D2974-87	PMST/9010		
5090811013	HH-SB-GP-13 (4-5')	ASTM D2974-87	PMST/9010		
5090811014	DUPLICATE	ASTM D2974-87	PMST/9010		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
 Company: SECURITY EARTH SCIENCE
 Address: 4350 SECURITY PLANK
 City: NEW ALBANY, IN
 Phone: 317-294-0333 Fax: 317-294-0335
 Requested Due Date/TAT: 2WK

Section B Required Project Information:
 Report To: Jason Sweeringer
 Copy To: _____
 Purchase Order No.: _____
 Project Name: Hitch N' Haul
 Project Number: 4350-13-152

Section C Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER EPA
 Site Location: _____ STATE: IN

Page: 1 of 2
 1712235

ITEM #	Section D Required Client Information	Matrix Codes MATRIX L CODE Drinking Water DW Waste Water WW Product P Soil/Solid SL Oil OIL Wipe WIP Air AR Tissue TS Other OT	MATERIAL CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	SB-01 (14-15')		G	G	DATE: 12/4/13 TIME: 12:00PM		5	Unpreserved	H ₂ O ₂	X			509081
2	SB-02 (14-15')		G	G	DATE: 12/4/13 TIME: 12:30PM		5	Unpreserved	HCl	X			Level IV
3	SB-03 (14-15')		G	G	DATE: 12/4/13 TIME: 11:00AM		5	Unpreserved	NaOH	X			
4	SB-04 (14-15')		G	G	DATE: 12/4/13 TIME: 11:30AM		5	Unpreserved	HNO ₃	X			
5	SB-05 (14-15')		G	G	DATE: 12/4/13 TIME: 12:30P		5	Unpreserved	Other	X			
6	SB-06 (10-11')		G	G	DATE: 12/4/13 TIME: 11:00AM		5	Unpreserved	Na ₂ S ₂ O ₃	X			
7	SB-07 (4-5')		G	G	DATE: 12/4/13 TIME: 11:00AM		5	Unpreserved	Methanol	X			
8	SB-08 (14-15')		G	G	DATE: 12/4/13 TIME: 11:30AM		5	Unpreserved	Other	X			
9	SB-09 (14-15')		G	G	DATE: 12/4/13 TIME: 11:15 PM		5	Unpreserved	H ₂ O ₂	X			
10	SB-10 (4-5')		G	G	DATE: 12/4/13 TIME: 2:00PM		5	Unpreserved	HCl	X			
11	SB-11 (4-5')		G	G	DATE: 12/4/13 TIME: 2:15PM		5	Unpreserved	NaOH	X			
12	SB-12 (4-5')		G	G	DATE: 12/4/13 TIME: 2:30PM		5	Unpreserved	Other	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jason Langford / SES	12/5/13	0958	CLP	12-5-13	0958	Received on ice (Y/N) <input checked="" type="checkbox"/> Sealed Cooler (Y/N) <input checked="" type="checkbox"/> Custody (Y/N) <input checked="" type="checkbox"/> Samples Intact (Y/N) <input checked="" type="checkbox"/>
							Temp in °C 0.4

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: Jason Langford
 DATE Signed (MM/DD/YY): 12/5/13

ORIGINAL

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>Specialty Earth Science</u> Address: <u>4350 Security Blvd</u> Email To: <u>New Albany, IN</u> Phone: <u>317-945-0933</u> Fax: <u>317-945-0935</u> Requested Due Date/TAT: <u>2 wk</u>		Section B Required Project Information: Report To: <u>Jason Swearingen</u> Copy To: Purchase Order No.: Project Name: <u>Witch n Hwy 1</u> Project Number: <u>4350-13-152</u>		Section C Invoice Information: Attention: Company Name: Address: Face Quote References: Pace Project Manager: Pace Profile #:	
Page: <u>2</u> of <u>2</u> 1712236		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER EPA		Site Location STATE: <u>IN</u>	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives	Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB								
1	SB-13 (4-5)	Drinking Water	DATE	TIME	G	G	52	Unpreserved	VOCs B260			13
2	Matrix Spike	Water	12/14/13	3:00pm	G	G	52	HCl	XXX			← SB-05 (14-15) 5005
3	Matrix Spike Duplicate	Waste Water	12/14/13	12:00pm	G	G	52	NaOH	XXX			
4	Duplicate	Product	12/14/13	X	G	G	52	HNO3	XXX			
5	Trip Blank	Soil/Solid	12/14/13	X	G	G	52	H2SO4	XXX			
6		Oil	12/14/13	12:00AM	G	G	41	Other	X			
7		Wipe										
8		Air										
9		Tissue										
10		Other										
11												
12												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp In °C	Received on	Custody	Samples Intact
	Jason Longheed/SES	12/15/13	0958	Jason Longheed	12-5-13	0958	Y	0.3	Y	N	Y
								6.4			

DATE SIGNED (MM/DD/YYYY): 12/15/13

PRINT Name of SAMPLER: Jason Longheed

SIGNATURE of SAMPLER:

SAMPLER NAME AND SIGNATURE

ORIGINAL

Sample Condition Upon Receipt



Client Name: Specialty Earth Science Project #

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 0.3, 0.4 Ice Visible in Sample Containers: yes no

Temp should be above freezing to 6°C Comments: Date and initials of person examining contents: CP 12-5-13

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <i>CP 12-5-13</i>	8. <i>Trip Blanks are Sodium Bisulfate No times or dates on terracores</i>
All containers needing acid/base pres. have been checked? <small>exceptions: VOA, coliform, TOC, O&G</small>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution: _____ Field Data Required? Y / N
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

Sample Container Count



CLIENT: Specialty Earth Science

COC PAGE 2 of 2

COC ID# 1712236

Project # _____

Sample Line Item	DG9H	AG1U	WG9H	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	pH <2	pH >12	Comments	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

4
 ↓
 ↓
 A3
 CP12-513
 Trip Blank Sodium Bisulfate

Container Codes	DG9H	AG1U	WG9H	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	DG9P	DG9S	DG9T	DG9U
DG9H	40mL HCL amber vial	AG0U	100mL unpreserved amber gl	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial											
AG1U	1 liter unpreserved amber gla	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial											
WG9H	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial											
R	terra core kit	AG1T	1 liter Na Thiosulfate amber g	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial											
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic		Wipe/Swap											
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide											
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber g	BP2Z	500mL NaOH, Zn Ac	U	Summa Can											
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber g	AF	Air Filter	VG9H	40mL HCL clear vial											
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial											
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial											
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gl	C	Air Cassettes	VSG	Headspace septa vial & HCL											
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe											
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plasti	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag											

December 23, 2013

Mr. Jason Swearingen
Specialty Earth Sciences
4350 Security Parkway
New Albany, IN 47150

RE: Project: City of New Albany: Hitch&Haul
Pace Project No.: 5091001

Dear Mr. Swearingen:

Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mark Davis

mark.davis@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Not NELAP Accredited
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Columbus, OH 43215
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: City of New Albany: Hitch&Haul
Pace Project No.: 5091001

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042

Louisiana/NELAC Certification #: 04076
Ohio VAP Certification #: 101170-0
Pennsylvania Certification #: 68-04991
West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5091001001	HH-GW-GP-1	Water	12/06/13 09:10	12/10/13 11:54
5091001002	HH-GW-GP-2	Water	12/06/13 08:30	12/10/13 11:54
5091001003	HH-GW-GP-3	Water	12/05/13 15:25	12/10/13 11:54
5091001004	HH-GW-GP-4	Water	12/05/13 14:45	12/10/13 11:54
5091001005	HH-GW-GP-5	Water	12/05/13 14:00	12/10/13 11:54
5091001006	HH-GW-GP-6	Water	12/05/13 13:10	12/10/13 11:54
5091001007	HH-GW-GP-7	Water	12/05/13 12:10	12/10/13 11:54
5091001008	HH-GW-GP-8	Water	12/05/13 11:35	12/10/13 11:54
5091001009	HH-GW-GP-9	Water	12/05/13 10:55	12/10/13 11:54
5091001010	HH-GW-GP-10	Water	12/06/13 11:45	12/10/13 11:54
5091001011	HH-GW-GP-11	Water	12/06/13 10:55	12/10/13 11:54
5091001012	HH-GW-GP-12	Water	12/06/13 10:15	12/10/13 11:54
5091001013	HH-GW-GP-13	Water	12/05/13 09:40	12/10/13 11:54
5091001014	HH-GW-GP-SBD	Water	12/05/13 09:40	12/10/13 11:54
5091001015	HH-GW-GP-FEB	Water	12/05/13 08:00	12/10/13 11:54
5091001016	HH-GW-GP-TB	Water	12/05/13 08:00	12/10/13 11:54

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SAMPLE ANALYTE COUNT

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5091001001	HH-GW-GP-1	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001002	HH-GW-GP-2	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001003	HH-GW-GP-3	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001004	HH-GW-GP-4	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001005	HH-GW-GP-5	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001006	HH-GW-GP-6	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001007	HH-GW-GP-7	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001008	HH-GW-GP-8	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001009	HH-GW-GP-9	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001010	HH-GW-GP-10	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001011	HH-GW-GP-11	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001012	HH-GW-GP-12	EPA 6010	LLB	1
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001013	HH-GW-GP-13	EPA 6010	LLB	1

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SAMPLE ANALYTE COUNT

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8270 by SIM LVE	CEM	20
		EPA 8260	GRM	73
5091001014	HH-GW-GP-SBD	EPA 8260	GRM	73
5091001015	HH-GW-GP-FEB	EPA 8260	GRM	73
5091001016	HH-GW-GP-TB	EPA 8260	GRM	73

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-1	Lab ID: 5091001001	Collected: 12/06/13 09:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 17:53	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 06:43	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:43	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:43	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72 %.		21-114	1	12/11/13 09:15	12/12/13 06:43	321-60-8	
p-Terphenyl-d14 (S)	67 %.		25-131	1	12/11/13 09:15	12/12/13 06:43	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/17/13 08:44	67-64-1	
Acrolein	ND ug/L		50.0	1		12/17/13 08:44	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/17/13 08:44	107-13-1	
Benzene	ND ug/L		5.0	1		12/17/13 08:44	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/17/13 08:44	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/17/13 08:44	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/17/13 08:44	75-27-4	
Bromoform	ND ug/L		5.0	1		12/17/13 08:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/17/13 08:44	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/17/13 08:44	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/17/13 08:44	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/17/13 08:44	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/17/13 08:44	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/17/13 08:44	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/17/13 08:44	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/17/13 08:44	75-00-3	
Chloroform	ND ug/L		5.0	1		12/17/13 08:44	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/17/13 08:44	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/17/13 08:44	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-1	Lab ID: 5091001001	Collected: 12/06/13 09:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/17/13 08:44	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/17/13 08:44	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/17/13 08:44	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/17/13 08:44	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/17/13 08:44	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/17/13 08:44	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/17/13 08:44	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/17/13 08:44	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/17/13 08:44	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 08:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 08:44	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 08:44	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/17/13 08:44	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 08:44	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/17/13 08:44	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 08:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 08:44	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/17/13 08:44	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/17/13 08:44	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/17/13 08:44	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/17/13 08:44	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/17/13 08:44	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/17/13 08:44	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/17/13 08:44	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/17/13 08:44	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/17/13 08:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/17/13 08:44	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/17/13 08:44	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/17/13 08:44	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/17/13 08:44	103-65-1	
Styrene	ND ug/L		5.0	1		12/17/13 08:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 08:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 08:44	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/17/13 08:44	127-18-4	
Toluene	ND ug/L		5.0	1		12/17/13 08:44	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 08:44	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/17/13 08:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/17/13 08:44	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/17/13 08:44	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/17/13 08:44	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/17/13 08:44	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 08:44	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 08:44	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-1		Lab ID: 5091001001	Collected: 12/06/13 09:10	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/17/13 08:44	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/13 08:44	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/13 08:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108 %.		79-116	1		12/17/13 08:44	1868-53-7	
4-Bromofluorobenzene (S)	103 %.		80-114	1		12/17/13 08:44	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/17/13 08:44	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-2	Lab ID: 5091001002	Collected: 12/06/13 08:30	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	26.0 ug/L		10.0	1	12/11/13 14:01	12/12/13 17:55	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 07:55	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:55	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:55	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	83 %.		21-114	1	12/11/13 09:15	12/12/13 07:55	321-60-8	
p-Terphenyl-d14 (S)	80 %.		25-131	1	12/11/13 09:15	12/12/13 07:55	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/17/13 09:19	67-64-1	
Acrolein	ND ug/L		50.0	1		12/17/13 09:19	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/17/13 09:19	107-13-1	
Benzene	ND ug/L		5.0	1		12/17/13 09:19	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/17/13 09:19	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/17/13 09:19	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/17/13 09:19	75-27-4	
Bromoform	ND ug/L		5.0	1		12/17/13 09:19	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/17/13 09:19	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/17/13 09:19	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:19	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:19	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:19	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/17/13 09:19	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/17/13 09:19	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/17/13 09:19	75-00-3	
Chloroform	ND ug/L		5.0	1		12/17/13 09:19	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/17/13 09:19	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/17/13 09:19	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-2	Lab ID: 5091001002	Collected: 12/06/13 08:30	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/17/13 09:19	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/17/13 09:19	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/17/13 09:19	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/17/13 09:19	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/17/13 09:19	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/17/13 09:19	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/17/13 09:19	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/17/13 09:19	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:19	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:19	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:19	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:19	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:19	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:19	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:19	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:19	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:19	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/17/13 09:19	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/17/13 09:19	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/17/13 09:19	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/17/13 09:19	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/17/13 09:19	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/17/13 09:19	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/17/13 09:19	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/17/13 09:19	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/17/13 09:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/17/13 09:19	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/17/13 09:19	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/17/13 09:19	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/17/13 09:19	103-65-1	
Styrene	ND ug/L		5.0	1		12/17/13 09:19	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 09:19	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 09:19	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/17/13 09:19	127-18-4	
Toluene	ND ug/L		5.0	1		12/17/13 09:19	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 09:19	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/17/13 09:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/17/13 09:19	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/17/13 09:19	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/17/13 09:19	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/17/13 09:19	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 09:19	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 09:19	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-2		Lab ID: 5091001002	Collected: 12/06/13 08:30	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/17/13 09:19	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/13 09:19	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/13 09:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/17/13 09:19	1868-53-7	
4-Bromofluorobenzene (S)	100 %.		80-114	1		12/17/13 09:19	460-00-4	
Toluene-d8 (S)	94 %.		81-110	1		12/17/13 09:19	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-3	Lab ID: 5091001003	Collected: 12/05/13 15:25	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	14.0 ug/L		10.0	1	12/11/13 14:01	12/12/13 17:58	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 04:20	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:20	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:20	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	77 %.		21-114	1	12/11/13 09:15	12/12/13 04:20	321-60-8	
p-Terphenyl-d14 (S)	77 %.		25-131	1	12/11/13 09:15	12/12/13 04:20	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/17/13 09:54	67-64-1	
Acrolein	ND ug/L		50.0	1		12/17/13 09:54	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/17/13 09:54	107-13-1	
Benzene	ND ug/L		5.0	1		12/17/13 09:54	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/17/13 09:54	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/17/13 09:54	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/17/13 09:54	75-27-4	
Bromoform	ND ug/L		5.0	1		12/17/13 09:54	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/17/13 09:54	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/17/13 09:54	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:54	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:54	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/17/13 09:54	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/17/13 09:54	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/17/13 09:54	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/17/13 09:54	75-00-3	
Chloroform	ND ug/L		5.0	1		12/17/13 09:54	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/17/13 09:54	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/17/13 09:54	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-3	Lab ID: 5091001003	Collected: 12/05/13 15:25	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/17/13 09:54	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/17/13 09:54	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/17/13 09:54	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/17/13 09:54	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/17/13 09:54	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/17/13 09:54	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/17/13 09:54	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/17/13 09:54	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:54	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:54	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 09:54	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:54	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:54	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 09:54	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:54	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:54	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 09:54	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/17/13 09:54	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/17/13 09:54	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/17/13 09:54	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/17/13 09:54	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/17/13 09:54	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/17/13 09:54	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/17/13 09:54	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/17/13 09:54	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/17/13 09:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/17/13 09:54	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/17/13 09:54	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/17/13 09:54	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/17/13 09:54	103-65-1	
Styrene	ND ug/L		5.0	1		12/17/13 09:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 09:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 09:54	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/17/13 09:54	127-18-4	
Toluene	ND ug/L		5.0	1		12/17/13 09:54	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 09:54	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/17/13 09:54	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/17/13 09:54	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/17/13 09:54	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/17/13 09:54	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/17/13 09:54	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 09:54	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 09:54	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-3		Lab ID: 5091001003	Collected: 12/05/13 15:25	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/17/13 09:54	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/13 09:54	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/13 09:54	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/17/13 09:54	1868-53-7	
4-Bromofluorobenzene (S)	101 %.		80-114	1		12/17/13 09:54	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/17/13 09:54	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-4	Lab ID: 5091001004	Collected: 12/05/13 14:45	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	10.9 ug/L		10.0	1	12/11/13 14:01	12/12/13 18:00	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 04:38	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:38	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:38	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66 %.		21-114	1	12/11/13 09:15	12/12/13 04:38	321-60-8	
p-Terphenyl-d14 (S)	52 %.		25-131	1	12/11/13 09:15	12/12/13 04:38	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/17/13 10:29	67-64-1	
Acrolein	ND ug/L		50.0	1		12/17/13 10:29	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/17/13 10:29	107-13-1	
Benzene	ND ug/L		5.0	1		12/17/13 10:29	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/17/13 10:29	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/17/13 10:29	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/17/13 10:29	75-27-4	
Bromoform	ND ug/L		5.0	1		12/17/13 10:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/17/13 10:29	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/17/13 10:29	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/17/13 10:29	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/17/13 10:29	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/17/13 10:29	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/17/13 10:29	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/17/13 10:29	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/17/13 10:29	75-00-3	
Chloroform	ND ug/L		5.0	1		12/17/13 10:29	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/17/13 10:29	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/17/13 10:29	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-4	Lab ID: 5091001004	Collected: 12/05/13 14:45	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/17/13 10:29	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/17/13 10:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/17/13 10:29	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/17/13 10:29	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/17/13 10:29	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/17/13 10:29	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/17/13 10:29	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/17/13 10:29	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/17/13 10:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 10:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 10:29	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 10:29	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/17/13 10:29	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 10:29	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/17/13 10:29	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 10:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 10:29	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/17/13 10:29	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/17/13 10:29	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/17/13 10:29	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/17/13 10:29	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/17/13 10:29	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/17/13 10:29	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/17/13 10:29	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/17/13 10:29	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/17/13 10:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/17/13 10:29	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/17/13 10:29	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/17/13 10:29	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/17/13 10:29	103-65-1	
Styrene	ND ug/L		5.0	1		12/17/13 10:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 10:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 10:29	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/17/13 10:29	127-18-4	
Toluene	ND ug/L		5.0	1		12/17/13 10:29	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 10:29	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/17/13 10:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/17/13 10:29	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/17/13 10:29	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/17/13 10:29	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/17/13 10:29	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 10:29	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 10:29	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-4		Lab ID: 5091001004	Collected: 12/05/13 14:45	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/17/13 10:29	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/13 10:29	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/13 10:29	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110 %.		79-116	1		12/17/13 10:29	1868-53-7	
4-Bromofluorobenzene (S)	103 %.		80-114	1		12/17/13 10:29	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/17/13 10:29	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-5	Lab ID: 5091001005	Collected: 12/05/13 14:00	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 18:02	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 04:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 04:56	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 04:56	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	70 %.		21-114	1	12/11/13 09:15	12/12/13 04:56	321-60-8	
p-Terphenyl-d14 (S)	53 %.		25-131	1	12/11/13 09:15	12/12/13 04:56	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/17/13 11:03	67-64-1	
Acrolein	ND ug/L		50.0	1		12/17/13 11:03	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/17/13 11:03	107-13-1	
Benzene	ND ug/L		5.0	1		12/17/13 11:03	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/17/13 11:03	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/17/13 11:03	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/17/13 11:03	75-27-4	
Bromoform	ND ug/L		5.0	1		12/17/13 11:03	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/17/13 11:03	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/17/13 11:03	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/17/13 11:03	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/17/13 11:03	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/17/13 11:03	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/17/13 11:03	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/17/13 11:03	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/17/13 11:03	75-00-3	
Chloroform	ND ug/L		5.0	1		12/17/13 11:03	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/17/13 11:03	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/17/13 11:03	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-5	Lab ID: 5091001005	Collected: 12/05/13 14:00	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/17/13 11:03	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/17/13 11:03	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/17/13 11:03	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/17/13 11:03	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/17/13 11:03	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/17/13 11:03	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/17/13 11:03	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/17/13 11:03	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/17/13 11:03	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 11:03	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/17/13 11:03	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 11:03	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/17/13 11:03	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/17/13 11:03	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/17/13 11:03	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 11:03	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/17/13 11:03	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/17/13 11:03	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/17/13 11:03	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/17/13 11:03	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/17/13 11:03	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/17/13 11:03	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/17/13 11:03	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/17/13 11:03	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/17/13 11:03	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/17/13 11:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/17/13 11:03	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/17/13 11:03	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/17/13 11:03	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/17/13 11:03	103-65-1	
Styrene	ND ug/L		5.0	1		12/17/13 11:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 11:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/17/13 11:03	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/17/13 11:03	127-18-4	
Toluene	ND ug/L		5.0	1		12/17/13 11:03	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/17/13 11:03	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/17/13 11:03	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/17/13 11:03	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/17/13 11:03	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/17/13 11:03	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/17/13 11:03	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 11:03	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/17/13 11:03	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-5		Lab ID: 5091001005	Collected: 12/05/13 14:00	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/17/13 11:03	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/17/13 11:03	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/17/13 11:03	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110 %.		79-116	1		12/17/13 11:03	1868-53-7	
4-Bromofluorobenzene (S)	103 %.		80-114	1		12/17/13 11:03	460-00-4	
Toluene-d8 (S)	94 %.		81-110	1		12/17/13 11:03	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-6	Lab ID: 5091001006	Collected: 12/05/13 13:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	93.4 ug/L		10.0	1	12/11/13 14:01	12/12/13 18:05	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 05:13	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:13	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:13	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71 %.		21-114	1	12/11/13 09:15	12/12/13 05:13	321-60-8	
p-Terphenyl-d14 (S)	67 %.		25-131	1	12/11/13 09:15	12/12/13 05:13	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 05:28	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 05:28	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 05:28	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 05:28	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 05:28	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 05:28	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 05:28	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 05:28	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 05:28	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 05:28	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 05:28	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 05:28	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 05:28	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 05:28	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 05:28	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 05:28	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 05:28	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 05:28	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 05:28	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-6	Lab ID: 5091001006	Collected: 12/05/13 13:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 05:28	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 05:28	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 05:28	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 05:28	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 05:28	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 05:28	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 05:28	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 05:28	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 05:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 05:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 05:28	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 05:28	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 05:28	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 05:28	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 05:28	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 05:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 05:28	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 05:28	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 05:28	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 05:28	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 05:28	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 05:28	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 05:28	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 05:28	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 05:28	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 05:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 05:28	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 05:28	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 05:28	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 05:28	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 05:28	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 05:28	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 05:28	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 05:28	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 05:28	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 05:28	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 05:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 05:28	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 05:28	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 05:28	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 05:28	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 05:28	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 05:28	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-6		Lab ID: 5091001006	Collected: 12/05/13 13:10	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 05:28	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 05:28	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 05:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/18/13 05:28	1868-53-7	
4-Bromofluorobenzene (S)	102 %.		80-114	1		12/18/13 05:28	460-00-4	
Toluene-d8 (S)	96 %.		81-110	1		12/18/13 05:28	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-7	Lab ID: 5091001007	Collected: 12/05/13 12:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	10.3 ug/L		10.0	1	12/11/13 14:01	12/12/13 18:08	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 05:31	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:31	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:31	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71 %.		21-114	1	12/11/13 09:15	12/12/13 05:31	321-60-8	
p-Terphenyl-d14 (S)	74 %.		25-131	1	12/11/13 09:15	12/12/13 05:31	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 06:02	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 06:02	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 06:02	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 06:02	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 06:02	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 06:02	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 06:02	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 06:02	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 06:02	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 06:02	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:02	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:02	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:02	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 06:02	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 06:02	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 06:02	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 06:02	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 06:02	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 06:02	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-7	Lab ID: 5091001007	Collected: 12/05/13 12:10	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 06:02	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 06:02	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 06:02	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 06:02	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 06:02	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 06:02	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 06:02	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 06:02	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:02	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:02	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:02	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:02	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:02	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:02	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 06:02	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 06:02	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 06:02	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 06:02	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 06:02	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 06:02	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 06:02	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 06:02	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 06:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 06:02	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 06:02	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 06:02	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 06:02	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 06:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 06:02	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 06:02	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 06:02	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 06:02	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 06:02	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 06:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 06:02	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 06:02	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 06:02	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 06:02	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 06:02	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 06:02	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-7		Lab ID: 5091001007	Collected: 12/05/13 12:10	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 06:02	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 06:02	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 06:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108 %.		79-116	1		12/18/13 06:02	1868-53-7	
4-Bromofluorobenzene (S)	102 %.		80-114	1		12/18/13 06:02	460-00-4	
Toluene-d8 (S)	96 %.		81-110	1		12/18/13 06:02	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-8	Lab ID: 5091001008	Collected: 12/05/13 11:35	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	80.6 ug/L		10.0	1	12/11/13 14:01	12/12/13 18:17	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 05:49	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 05:49	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 05:49	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	71 %.		21-114	1	12/11/13 09:15	12/12/13 05:49	321-60-8	
p-Terphenyl-d14 (S)	63 %.		25-131	1	12/11/13 09:15	12/12/13 05:49	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 06:37	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 06:37	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 06:37	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 06:37	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 06:37	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 06:37	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 06:37	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 06:37	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 06:37	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 06:37	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:37	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:37	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 06:37	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 06:37	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 06:37	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 06:37	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 06:37	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 06:37	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 06:37	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-8	Lab ID: 5091001008	Collected: 12/05/13 11:35	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 06:37	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 06:37	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 06:37	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 06:37	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 06:37	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 06:37	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 06:37	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 06:37	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 06:37	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:37	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:37	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 06:37	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:37	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 06:37	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 06:37	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 06:37	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 06:37	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 06:37	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 06:37	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 06:37	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 06:37	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 06:37	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 06:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 06:37	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 06:37	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 06:37	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 06:37	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 06:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 06:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 06:37	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 06:37	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 06:37	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 06:37	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 06:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 06:37	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 06:37	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 06:37	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 06:37	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 06:37	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 06:37	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-8		Lab ID: 5091001008	Collected: 12/05/13 11:35	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 06:37	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 06:37	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 06:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/18/13 06:37	1868-53-7	
4-Bromofluorobenzene (S)	100 %.		80-114	1		12/18/13 06:37	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/18/13 06:37	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-9	Lab ID: 5091001009	Collected: 12/05/13 10:55	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	78.0 ug/L		10.0	1	12/11/13 14:01	12/12/13 18:19	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 06:07	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:07	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:07	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69 %.		21-114	1	12/11/13 09:15	12/12/13 06:07	321-60-8	
p-Terphenyl-d14 (S)	67 %.		25-131	1	12/11/13 09:15	12/12/13 06:07	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 07:12	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 07:12	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 07:12	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 07:12	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 07:12	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 07:12	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 07:12	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 07:12	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 07:12	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 07:12	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:12	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:12	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:12	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 07:12	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 07:12	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 07:12	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 07:12	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 07:12	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 07:12	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-9	Lab ID: 5091001009	Collected: 12/05/13 10:55	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 07:12	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 07:12	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 07:12	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 07:12	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 07:12	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 07:12	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 07:12	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 07:12	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:12	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:12	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:12	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:12	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:12	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:12	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 07:12	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 07:12	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 07:12	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 07:12	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 07:12	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 07:12	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 07:12	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 07:12	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 07:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 07:12	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 07:12	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 07:12	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 07:12	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 07:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 07:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 07:12	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 07:12	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 07:12	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 07:12	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 07:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 07:12	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 07:12	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 07:12	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 07:12	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 07:12	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 07:12	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-9		Lab ID: 5091001009	Collected: 12/05/13 10:55	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 07:12	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 07:12	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 07:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/18/13 07:12	1868-53-7	
4-Bromofluorobenzene (S)	104 %.		80-114	1		12/18/13 07:12	460-00-4	
Toluene-d8 (S)	97 %.		81-110	1		12/18/13 07:12	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-10	Lab ID: 5091001010	Collected: 12/06/13 11:45	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 18:22	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 07:01	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 07:01	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 07:01	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75 %.		21-114	1	12/11/13 09:15	12/12/13 07:01	321-60-8	
p-Terphenyl-d14 (S)	82 %.		25-131	1	12/11/13 09:15	12/12/13 07:01	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 07:47	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 07:47	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 07:47	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 07:47	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 07:47	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 07:47	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 07:47	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 07:47	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 07:47	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 07:47	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:47	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:47	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 07:47	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 07:47	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 07:47	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 07:47	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 07:47	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 07:47	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 07:47	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-10	Lab ID: 5091001010	Collected: 12/06/13 11:45	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 07:47	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 07:47	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 07:47	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 07:47	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 07:47	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 07:47	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 07:47	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 07:47	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:47	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:47	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 07:47	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:47	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:47	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 07:47	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:47	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:47	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 07:47	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 07:47	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 07:47	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 07:47	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 07:47	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 07:47	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 07:47	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 07:47	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 07:47	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 07:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 07:47	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 07:47	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 07:47	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 07:47	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 07:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 07:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 07:47	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 07:47	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 07:47	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 07:47	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 07:47	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 07:47	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 07:47	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 07:47	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 07:47	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 07:47	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 07:47	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-10		Lab ID: 5091001010	Collected: 12/06/13 11:45	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 07:47	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 07:47	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 07:47	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	109 %.		79-116	1		12/18/13 07:47	1868-53-7	
4-Bromofluorobenzene (S)	101 %.		80-114	1		12/18/13 07:47	460-00-4	
Toluene-d8 (S)	96 %.		81-110	1		12/18/13 07:47	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-11	Lab ID: 5091001011	Collected: 12/06/13 10:55	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 18:24	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 12:30	12/11/13 19:57	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 19:57	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 19:57	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	75 %.		21-114	1	12/11/13 12:30	12/11/13 19:57	321-60-8	
p-Terphenyl-d14 (S)	85 %.		25-131	1	12/11/13 12:30	12/11/13 19:57	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 09:31	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 09:31	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 09:31	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 09:31	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 09:31	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 09:31	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 09:31	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 09:31	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 09:31	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 09:31	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 09:31	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 09:31	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 09:31	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 09:31	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 09:31	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 09:31	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 09:31	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 09:31	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 09:31	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-11	Lab ID: 5091001011	Collected: 12/06/13 10:55	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 09:31	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 09:31	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 09:31	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 09:31	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 09:31	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 09:31	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 09:31	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 09:31	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 09:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 09:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 09:31	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 09:31	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 09:31	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 09:31	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 09:31	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 09:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 09:31	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 09:31	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 09:31	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 09:31	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 09:31	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 09:31	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 09:31	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 09:31	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 09:31	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 09:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 09:31	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 09:31	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 09:31	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 09:31	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 09:31	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 09:31	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 09:31	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 09:31	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 09:31	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 09:31	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 09:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 09:31	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 09:31	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 09:31	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 09:31	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 09:31	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 09:31	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-11		Lab ID: 5091001011	Collected: 12/06/13 10:55	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 09:31	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 09:31	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 09:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	110 %.		79-116	1		12/18/13 09:31	1868-53-7	
4-Bromofluorobenzene (S)	102 %.		80-114	1		12/18/13 09:31	460-00-4	
Toluene-d8 (S)	96 %.		81-110	1		12/18/13 09:31	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-12	Lab ID: 5091001012	Collected: 12/06/13 10:15	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 14:39	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 12:30	12/11/13 20:15	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 12:30	12/11/13 20:15	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 12:30	12/11/13 20:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78 %.		21-114	1	12/11/13 12:30	12/11/13 20:15	321-60-8	
p-Terphenyl-d14 (S)	78 %.		25-131	1	12/11/13 12:30	12/11/13 20:15	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 10:05	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 10:05	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 10:05	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 10:05	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 10:05	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 10:05	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 10:05	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 10:05	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 10:05	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 10:05	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:05	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:05	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:05	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 10:05	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 10:05	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 10:05	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 10:05	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 10:05	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 10:05	95-49-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-12	Lab ID: 5091001012	Collected: 12/06/13 10:15	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 10:05	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 10:05	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 10:05	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 10:05	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 10:05	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 10:05	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 10:05	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 10:05	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:05	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:05	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:05	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:05	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:05	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:05	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 10:05	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 10:05	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 10:05	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 10:05	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 10:05	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 10:05	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 10:05	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 10:05	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 10:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 10:05	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 10:05	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 10:05	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 10:05	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 10:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 10:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 10:05	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 10:05	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 10:05	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 10:05	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 10:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 10:05	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 10:05	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 10:05	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 10:05	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 10:05	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 10:05	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-12		Lab ID: 5091001012	Collected: 12/06/13 10:15	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 10:05	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 10:05	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 10:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	107 %.		79-116	1		12/18/13 10:05	1868-53-7	
4-Bromofluorobenzene (S)	102 %.		80-114	1		12/18/13 10:05	460-00-4	
Toluene-d8 (S)	96 %.		81-110	1		12/18/13 10:05	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-13	Lab ID: 5091001013	Collected: 12/05/13 09:40	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
Lead	ND ug/L		10.0	1	12/11/13 14:01	12/12/13 14:41	7439-92-1	
8270 MSSV PAHLV		Analytical Method: EPA 8270 by SIM LVE Preparation Method: EPA 3510						
Acenaphthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	83-32-9	
Acenaphthylene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	208-96-8	
Anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	120-12-7	
Benzo(a)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	56-55-3	
Benzo(a)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	50-32-8	
Benzo(b)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	191-24-2	
Benzo(k)fluoranthene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	207-08-9	
Chrysene	ND ug/L		0.50	1	12/11/13 09:15	12/12/13 06:25	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	53-70-3	
Fluoranthene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	206-44-0	
Fluorene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/L		0.10	1	12/11/13 09:15	12/12/13 06:25	193-39-5	
1-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	90-12-0	N2
2-Methylnaphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	91-57-6	
Naphthalene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	91-20-3	
Phenanthrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	85-01-8	
Pyrene	ND ug/L		1.0	1	12/11/13 09:15	12/12/13 06:25	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	84 %.		21-114	1	12/11/13 09:15	12/12/13 06:25	321-60-8	
p-Terphenyl-d14 (S)	78 %.		25-131	1	12/11/13 09:15	12/12/13 06:25	1718-51-0	
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 10:40	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 10:40	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 10:40	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 10:40	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 10:40	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 10:40	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 10:40	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 10:40	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 10:40	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 10:40	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:40	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:40	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 10:40	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 10:40	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 10:40	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 10:40	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 10:40	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 10:40	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 10:40	95-49-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-13	Lab ID: 5091001013	Collected: 12/05/13 09:40	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 10:40	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 10:40	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 10:40	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 10:40	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 10:40	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 10:40	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 10:40	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 10:40	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 10:40	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:40	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:40	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 10:40	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:40	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 10:40	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 10:40	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 10:40	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 10:40	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 10:40	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 10:40	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 10:40	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 10:40	98-82-8	
p-Isopropyltoluene	ND ug/L		5.0	1		12/18/13 10:40	99-87-6	
Methylene Chloride	ND ug/L		5.0	1		12/18/13 10:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		12/18/13 10:40	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		12/18/13 10:40	1634-04-4	
Naphthalene	ND ug/L		5.0	1		12/18/13 10:40	91-20-3	
n-Propylbenzene	ND ug/L		5.0	1		12/18/13 10:40	103-65-1	
Styrene	ND ug/L		5.0	1		12/18/13 10:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 10:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/18/13 10:40	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/18/13 10:40	127-18-4	
Toluene	ND ug/L		5.0	1		12/18/13 10:40	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		12/18/13 10:40	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/18/13 10:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/18/13 10:40	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/18/13 10:40	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/18/13 10:40	75-69-4	
1,2,3-Trichloropropane	ND ug/L		5.0	1		12/18/13 10:40	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 10:40	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		5.0	1		12/18/13 10:40	108-67-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-13		Lab ID: 5091001013	Collected: 12/05/13 09:40	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 10:40	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 10:40	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 10:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108 %.		79-116	1		12/18/13 10:40	1868-53-7	
4-Bromofluorobenzene (S)	101 %.		80-114	1		12/18/13 10:40	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/18/13 10:40	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-SBD	Lab ID: 5091001014	Collected: 12/05/13 09:40	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 11:15	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 11:15	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 11:15	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 11:15	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 11:15	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 11:15	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 11:15	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 11:15	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 11:15	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 11:15	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 11:15	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 11:15	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 11:15	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 11:15	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 11:15	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 11:15	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 11:15	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 11:15	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 11:15	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 11:15	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 11:15	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 11:15	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 11:15	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 11:15	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 11:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 11:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 11:15	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 11:15	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 11:15	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 11:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 11:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 11:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 11:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 11:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 11:15	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 11:15	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 11:15	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 11:15	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 11:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 11:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 11:15	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 11:15	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 11:15	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 11:15	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 11:15	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 11:15	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 11:15	98-82-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-SBD		Lab ID: 5091001014	Collected: 12/05/13 09:40	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		12/18/13 11:15	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/13 11:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/13 11:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/13 11:15	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/13 11:15	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/13 11:15	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/13 11:15	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 11:15	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 11:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/13 11:15	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/13 11:15	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 11:15	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 11:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/13 11:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/13 11:15	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/13 11:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/13 11:15	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/13 11:15	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 11:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 11:15	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 11:15	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 11:15	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 11:15	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	111 %.		79-116	1		12/18/13 11:15	1868-53-7	
4-Bromofluorobenzene (S)	101 %.		80-114	1		12/18/13 11:15	460-00-4	
Toluene-d8 (S)	95 %.		81-110	1		12/18/13 11:15	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-FEB	Lab ID: 5091001015	Collected: 12/05/13 08:00	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 16:34	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 16:34	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 16:34	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 16:34	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 16:34	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 16:34	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 16:34	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 16:34	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 16:34	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 16:34	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 16:34	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 16:34	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 16:34	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 16:34	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 16:34	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 16:34	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 16:34	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 16:34	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 16:34	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 16:34	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 16:34	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 16:34	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 16:34	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 16:34	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 16:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 16:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 16:34	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 16:34	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 16:34	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 16:34	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 16:34	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 16:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 16:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 16:34	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 16:34	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 16:34	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 16:34	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 16:34	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 16:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 16:34	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 16:34	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 16:34	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 16:34	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 16:34	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 16:34	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 16:34	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 16:34	98-82-8	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-FEB		Lab ID: 5091001015	Collected: 12/05/13 08:00	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		12/18/13 16:34	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/13 16:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/13 16:34	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/13 16:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/13 16:34	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/13 16:34	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/13 16:34	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 16:34	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 16:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/13 16:34	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/13 16:34	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 16:34	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 16:34	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/13 16:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/13 16:34	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/13 16:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/13 16:34	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/13 16:34	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 16:34	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 16:34	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 16:34	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 16:34	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 16:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104 %.		79-116	1		12/18/13 16:34	1868-53-7	
4-Bromofluorobenzene (S)	99 %.		80-114	1		12/18/13 16:34	460-00-4	
Toluene-d8 (S)	97 %.		81-110	1		12/18/13 16:34	2037-26-5	

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-TB	Lab ID: 5091001016	Collected: 12/05/13 08:00	Received: 12/10/13 11:54	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	ND ug/L		100	1		12/18/13 17:08	67-64-1	
Acrolein	ND ug/L		50.0	1		12/18/13 17:08	107-02-8	
Acrylonitrile	ND ug/L		100	1		12/18/13 17:08	107-13-1	
Benzene	ND ug/L		5.0	1		12/18/13 17:08	71-43-2	
Bromobenzene	ND ug/L		5.0	1		12/18/13 17:08	108-86-1	
Bromochloromethane	ND ug/L		5.0	1		12/18/13 17:08	74-97-5	
Bromodichloromethane	ND ug/L		5.0	1		12/18/13 17:08	75-27-4	
Bromoform	ND ug/L		5.0	1		12/18/13 17:08	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/18/13 17:08	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		12/18/13 17:08	78-93-3	
n-Butylbenzene	ND ug/L		5.0	1		12/18/13 17:08	104-51-8	
sec-Butylbenzene	ND ug/L		5.0	1		12/18/13 17:08	135-98-8	
tert-Butylbenzene	ND ug/L		5.0	1		12/18/13 17:08	98-06-6	
Carbon disulfide	ND ug/L		10.0	1		12/18/13 17:08	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/18/13 17:08	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/18/13 17:08	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/18/13 17:08	75-00-3	
Chloroform	ND ug/L		5.0	1		12/18/13 17:08	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/18/13 17:08	74-87-3	
2-Chlorotoluene	ND ug/L		5.0	1		12/18/13 17:08	95-49-8	
4-Chlorotoluene	ND ug/L		5.0	1		12/18/13 17:08	106-43-4	
Dibromochloromethane	ND ug/L		5.0	1		12/18/13 17:08	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		12/18/13 17:08	106-93-4	
Dibromomethane	ND ug/L		5.0	1		12/18/13 17:08	74-95-3	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 17:08	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 17:08	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/18/13 17:08	106-46-7	
trans-1,4-Dichloro-2-butene	ND ug/L		100	1		12/18/13 17:08	110-57-6	
Dichlorodifluoromethane	ND ug/L		5.0	1		12/18/13 17:08	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		12/18/13 17:08	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/18/13 17:08	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/18/13 17:08	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 17:08	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/18/13 17:08	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 17:08	78-87-5	
1,3-Dichloropropane	ND ug/L		5.0	1		12/18/13 17:08	142-28-9	
2,2-Dichloropropane	ND ug/L		5.0	1		12/18/13 17:08	594-20-7	
1,1-Dichloropropene	ND ug/L		5.0	1		12/18/13 17:08	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/18/13 17:08	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/18/13 17:08	100-41-4	
Ethyl methacrylate	ND ug/L		100	1		12/18/13 17:08	97-63-2	
Hexachloro-1,3-butadiene	ND ug/L		5.0	1		12/18/13 17:08	87-68-3	
n-Hexane	ND ug/L		5.0	1		12/18/13 17:08	110-54-3	N2
2-Hexanone	ND ug/L		25.0	1		12/18/13 17:08	591-78-6	
Iodomethane	ND ug/L		10.0	1		12/18/13 17:08	74-88-4	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		12/18/13 17:08	98-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Sample: HH-GW-GP-TB		Lab ID: 5091001016	Collected: 12/05/13 08:00	Received: 12/10/13 11:54	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
p-Isopropyltoluene	ND	ug/L	5.0	1		12/18/13 17:08	99-87-6	
Methylene Chloride	ND	ug/L	5.0	1		12/18/13 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	25.0	1		12/18/13 17:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	4.0	1		12/18/13 17:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/18/13 17:08	91-20-3	
n-Propylbenzene	ND	ug/L	5.0	1		12/18/13 17:08	103-65-1	
Styrene	ND	ug/L	5.0	1		12/18/13 17:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 17:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/18/13 17:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/18/13 17:08	127-18-4	
Toluene	ND	ug/L	5.0	1		12/18/13 17:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 17:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	5.0	1		12/18/13 17:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/18/13 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/18/13 17:08	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/18/13 17:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/18/13 17:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	5.0	1		12/18/13 17:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 17:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	5.0	1		12/18/13 17:08	108-67-8	
Vinyl acetate	ND	ug/L	50.0	1		12/18/13 17:08	108-05-4	
Vinyl chloride	ND	ug/L	2.0	1		12/18/13 17:08	75-01-4	
Xylene (Total)	ND	ug/L	10.0	1		12/18/13 17:08	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	106 %.		79-116	1		12/18/13 17:08	1868-53-7	
4-Bromofluorobenzene (S)	98 %.		80-114	1		12/18/13 17:08	460-00-4	
Toluene-d8 (S)	97 %.		81-110	1		12/18/13 17:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul
Pace Project No.: 5091001

QC Batch: MPRP/12601 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005, 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001011, 5091001012, 5091001013

METHOD BLANK: 1025386 Matrix: Water
Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005, 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001011, 5091001012, 5091001013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	ND	10.0	12/12/13 17:34	

LABORATORY CONTROL SAMPLE: 1025387

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1000	928	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025388 1025389

Parameter	Units	5091001010 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Lead	ug/L	ND	1000	1000	931	953	93	95	75-125	2	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025746 1025747

Parameter	Units	5091039002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Lead	ug/L	20.2	1000	1000	896	898	88	88	75-125	0	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

QC Batch: MSV/60302 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005

METHOD BLANK: 1028933 Matrix: Water
 Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,1-Dichloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,1-Dichloroethene	ug/L	ND	5.0	12/17/13 01:48	
1,1-Dichloropropene	ug/L	ND	5.0	12/17/13 01:48	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/17/13 01:48	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/17/13 01:48	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/17/13 01:48	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
1,2-Dichloroethane	ug/L	ND	5.0	12/17/13 01:48	
1,2-Dichloropropane	ug/L	ND	5.0	12/17/13 01:48	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/17/13 01:48	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
1,3-Dichloropropane	ug/L	ND	5.0	12/17/13 01:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
2,2-Dichloropropane	ug/L	ND	5.0	12/17/13 01:48	
2-Butanone (MEK)	ug/L	ND	25.0	12/17/13 01:48	
2-Chlorotoluene	ug/L	ND	5.0	12/17/13 01:48	
2-Hexanone	ug/L	ND	25.0	12/17/13 01:48	
4-Chlorotoluene	ug/L	ND	5.0	12/17/13 01:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/17/13 01:48	
Acetone	ug/L	ND	100	12/17/13 01:48	
Acrolein	ug/L	ND	50.0	12/17/13 01:48	
Acrylonitrile	ug/L	ND	100	12/17/13 01:48	
Benzene	ug/L	ND	5.0	12/17/13 01:48	
Bromobenzene	ug/L	ND	5.0	12/17/13 01:48	
Bromochloromethane	ug/L	ND	5.0	12/17/13 01:48	
Bromodichloromethane	ug/L	ND	5.0	12/17/13 01:48	
Bromoform	ug/L	ND	5.0	12/17/13 01:48	
Bromomethane	ug/L	ND	5.0	12/17/13 01:48	
Carbon disulfide	ug/L	ND	10.0	12/17/13 01:48	
Carbon tetrachloride	ug/L	ND	5.0	12/17/13 01:48	
Chlorobenzene	ug/L	ND	5.0	12/17/13 01:48	
Chloroethane	ug/L	ND	5.0	12/17/13 01:48	
Chloroform	ug/L	ND	5.0	12/17/13 01:48	
Chloromethane	ug/L	ND	5.0	12/17/13 01:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/17/13 01:48	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/17/13 01:48	
Dibromochloromethane	ug/L	ND	5.0	12/17/13 01:48	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

METHOD BLANK: 1028933

Matrix: Water

Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/17/13 01:48	
Dichlorodifluoromethane	ug/L	ND	5.0	12/17/13 01:48	
Ethyl methacrylate	ug/L	ND	100	12/17/13 01:48	
Ethylbenzene	ug/L	ND	5.0	12/17/13 01:48	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/17/13 01:48	
Iodomethane	ug/L	ND	10.0	12/17/13 01:48	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/17/13 01:48	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/17/13 01:48	
Methylene Chloride	ug/L	ND	5.0	12/17/13 01:48	
n-Butylbenzene	ug/L	ND	5.0	12/17/13 01:48	
n-Hexane	ug/L	ND	5.0	12/17/13 01:48	N2
n-Propylbenzene	ug/L	ND	5.0	12/17/13 01:48	
Naphthalene	ug/L	ND	5.0	12/17/13 01:48	
p-Isopropyltoluene	ug/L	ND	5.0	12/17/13 01:48	
sec-Butylbenzene	ug/L	ND	5.0	12/17/13 01:48	
Styrene	ug/L	ND	5.0	12/17/13 01:48	
tert-Butylbenzene	ug/L	ND	5.0	12/17/13 01:48	
Tetrachloroethene	ug/L	ND	5.0	12/17/13 01:48	
Toluene	ug/L	ND	5.0	12/17/13 01:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/17/13 01:48	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/17/13 01:48	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/17/13 01:48	
Trichloroethene	ug/L	ND	5.0	12/17/13 01:48	
Trichlorofluoromethane	ug/L	ND	5.0	12/17/13 01:48	
Vinyl acetate	ug/L	ND	50.0	12/17/13 01:48	
Vinyl chloride	ug/L	ND	2.0	12/17/13 01:48	
Xylene (Total)	ug/L	ND	10.0	12/17/13 01:48	
4-Bromofluorobenzene (S)	%	103	80-114	12/17/13 01:48	
Dibromofluoromethane (S)	%	107	79-116	12/17/13 01:48	
Toluene-d8 (S)	%	95	81-110	12/17/13 01:48	

LABORATORY CONTROL SAMPLE: 1028934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	56.7	113	61-135	
1,1,1-Trichloroethane	ug/L	50	57.0	114	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	52.9	106	66-126	
1,1,2-Trichloroethane	ug/L	50	49.9	100	77-130	
1,1-Dichloroethane	ug/L	50	49.5	99	75-130	
1,1-Dichloroethene	ug/L	50	54.5	109	68-127	
1,1-Dichloropropene	ug/L	50	53.4	107	78-130	
1,2,3-Trichlorobenzene	ug/L	50	56.8	114	70-130	
1,2,3-Trichloropropane	ug/L	50	52.4	105	58-142	
1,2,4-Trichlorobenzene	ug/L	50	56.6	113	68-131	
1,2,4-Trimethylbenzene	ug/L	50	49.1	98	69-127	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1028934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.5	103	76-125	
1,2-Dichlorobenzene	ug/L	50	50.8	102	75-123	
1,2-Dichloroethane	ug/L	50	54.3	109	75-128	
1,2-Dichloropropane	ug/L	50	50.6	101	74-121	
1,3,5-Trimethylbenzene	ug/L	50	49.5	99	70-126	
1,3-Dichlorobenzene	ug/L	50	49.8	100	74-122	
1,3-Dichloropropane	ug/L	50	48.8	98	74-123	
1,4-Dichlorobenzene	ug/L	50	51.5	103	76-120	
2,2-Dichloropropane	ug/L	50	55.5	111	50-137	
2-Butanone (MEK)	ug/L	250	233	93	58-139	
2-Chlorotoluene	ug/L	50	49.5	99	74-122	
2-Hexanone	ug/L	250	225	90	54-140	
4-Chlorotoluene	ug/L	50	51.0	102	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	219	88	58-138	
Acetone	ug/L	250	317	127	49-150	
Acrolein	ug/L	1000	1270	127	41-200	
Acrylonitrile	ug/L	1000	1020	102	63-137	
Benzene	ug/L	50	51.8	104	74-122	
Bromobenzene	ug/L	50	52.5	105	72-127	
Bromochloromethane	ug/L	50	45.5	91	63-132	
Bromodichloromethane	ug/L	50	58.1	116	62-136	
Bromoform	ug/L	50	45.3	91	44-134	
Bromomethane	ug/L	50	60.4	121	22-181	
Carbon disulfide	ug/L	100	114	114	59-132	
Carbon tetrachloride	ug/L	50	58.2	116	56-137	
Chlorobenzene	ug/L	50	53.3	107	78-123	
Chloroethane	ug/L	50	53.4	107	60-144	
Chloroform	ug/L	50	55.4	111	78-126	
Chloromethane	ug/L	50	44.1	88	42-134	
cis-1,2-Dichloroethene	ug/L	50	53.4	107	75-122	
cis-1,3-Dichloropropene	ug/L	50	51.3	103	64-126	
Dibromochloromethane	ug/L	50	51.5	103	58-128	
Dibromomethane	ug/L	50	52.1	104	73-125	
Dichlorodifluoromethane	ug/L	50	47.1	94	35-181	
Ethyl methacrylate	ug/L	200	196	98	69-133	
Ethylbenzene	ug/L	50	51.0	102	66-133	
Hexachloro-1,3-butadiene	ug/L	50	51.9	104	59-145	
Iodomethane	ug/L	100	109	109	21-170	
Isopropylbenzene (Cumene)	ug/L	50	51.5	103	69-124	
Methyl-tert-butyl ether	ug/L	100	105	105	69-122	
Methylene Chloride	ug/L	50	59.7	119	68-132	
n-Butylbenzene	ug/L	50	51.5	103	70-126	
n-Hexane	ug/L	50	51.5	103	51-125 N2	
n-Propylbenzene	ug/L	50	50.1	100	71-122	
Naphthalene	ug/L	50	60.9	122	68-127	
p-Isopropyltoluene	ug/L	50	51.1	102	72-132	
sec-Butylbenzene	ug/L	50	52.7	105	70-128	
Styrene	ug/L	50	53.6	107	74-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1028934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	49.5	99	51-118	
Tetrachloroethene	ug/L	50	48.7	97	69-130	
Toluene	ug/L	50	46.4	93	72-122	
trans-1,2-Dichloroethene	ug/L	50	54.5	109	72-124	
trans-1,3-Dichloropropene	ug/L	50	54.9	110	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	210	105	56-133	
Trichloroethene	ug/L	50	55.2	110	76-126	
Trichlorofluoromethane	ug/L	50	54.8	110	76-149	
Vinyl acetate	ug/L	200	201	100	45-151	
Vinyl chloride	ug/L	50	53.0	106	59-126	
Xylene (Total)	ug/L	150	158	106	70-124	
4-Bromofluorobenzene (S)	%			99	80-114	
Dibromofluoromethane (S)	%			103	79-116	
Toluene-d8 (S)	%			93	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028935 1028936

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		5090925002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	56.2	57.4	112	115	50-132	2	20		
1,1,1-Trichloroethane	ug/L	ND	50	50	60.4	60.1	120	119	60-138	0	20		
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	51.4	50.2	103	100	55-128	2	20		
1,1,2-Trichloroethane	ug/L	ND	50	50	50.0	49.8	100	100	61-139	0	20		
1,1-Dichloroethane	ug/L	ND	50	50	53.3	52.7	107	105	57-147	1	20		
1,1-Dichloroethene	ug/L	ND	50	50	56.6	57.2	113	114	55-145	1	20		
1,1-Dichloropropene	ug/L	ND	50	50	53.8	54.4	108	109	55-147	1	20		
1,2,3-Trichlorobenzene	ug/L	ND	50	50	57.9	57.3	116	115	31-141	1	20		
1,2,3-Trichloropropane	ug/L	ND	50	50	52.1	51.8	104	104	58-133	1	20		
1,2,4-Trichlorobenzene	ug/L	ND	50	50	56.6	55.3	113	111	25-143	2	20		
1,2,4-Trimethylbenzene	ug/L	ND	50	50	48.5	47.9	97	96	18-149	1	20		
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.4	52.4	103	105	63-129	2	20		
1,2-Dichlorobenzene	ug/L	ND	50	50	51.3	51.7	103	103	38-136	1	20		
1,2-Dichloroethane	ug/L	ND	50	50	56.7	56.3	113	113	62-138	1	20		
1,2-Dichloropropane	ug/L	ND	50	50	52.6	54.0	105	108	59-130	3	20		
1,3,5-Trimethylbenzene	ug/L	ND	50	50	47.6	47.4	95	95	20-147	1	20		
1,3-Dichlorobenzene	ug/L	ND	50	50	49.8	49.7	100	99	28-141	0	20		
1,3-Dichloropropane	ug/L	ND	50	50	49.5	49.3	99	99	62-127	0	20		
1,4-Dichlorobenzene	ug/L	ND	50	50	51.6	51.7	103	103	30-139	0	20		
2,2-Dichloropropane	ug/L	ND	50	50	51.3	52.6	103	105	37-139	2	20		
2-Butanone (MEK)	ug/L	ND	250	250	238	236	95	94	37-156	1	20		
2-Chlorotoluene	ug/L	ND	50	50	48.8	49.1	98	98	27-142	1	20		
2-Hexanone	ug/L	ND	250	250	221	221	89	88	44-143	0	20		
4-Chlorotoluene	ug/L	ND	50	50	50.3	50.5	101	101	27-144	0	20		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	217	218	87	87	46-144	0	20		
Acetone	ug/L	ND	250	250	325	332	130	133	39-156	2	20		
Acrolein	ug/L	ND	1000	1000	1020	1070	102	107	33-200	4	20		
Acrylonitrile	ug/L	ND	1000	1000	1050	1080	105	108	48-149	3	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1028935 1028936												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		5090925002 Result	Spike Conc.	Spike Conc.	MSD Conc.							
Benzene	ug/L	ND	50	50	53.8	54.0	108	108	62-129	0	20	
Bromobenzene	ug/L	ND	50	50	50.6	50.7	101	101	39-140	0	20	
Bromochloromethane	ug/L	ND	50	50	48.5	46.8	97	94	49-142	3	20	
Bromodichloromethane	ug/L	ND	50	50	60.2	61.1	120	122	50-142	1	20	
Bromoform	ug/L	ND	50	50	44.2	45.7	88	91	36-125	4	20	
Bromomethane	ug/L	ND	50	50	58.9	63.0	118	126	13-179	7	20	
Carbon disulfide	ug/L	ND	100	100	121	125	121	125	45-142	3	20	
Carbon tetrachloride	ug/L	ND	50	50	59.8	61.0	120	122	46-142	2	20	
Chlorobenzene	ug/L	ND	50	50	53.8	53.4	108	107	49-136	1	20	
Chloroethane	ug/L	ND	50	50	53.4	54.7	107	109	47-160	2	20	
Chloroform	ug/L	ND	50	50	58.1	58.5	116	117	54-150	1	20	
Chloromethane	ug/L	ND	50	50	43.8	45.3	88	91	30-148	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	54.4	54.7	109	109	60-135	1	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	48.7	49.4	97	99	52-123	2	20	
Dibromochloromethane	ug/L	ND	50	50	51.3	52.7	103	105	48-125	3	20	
Dibromomethane	ug/L	ND	50	50	56.0	56.2	112	112	59-134	0	20	
Dichlorodifluoromethane	ug/L	ND	50	50	47.6	48.5	95	97	24-197	2	20	
Ethyl methacrylate	ug/L	ND	200	200	191	192	95	96	55-139	1	20	
Ethylbenzene	ug/L	ND	50	50	50.8	51.7	102	103	28-153	2	20	
Hexachloro-1,3-butadiene	ug/L	ND	50	50	51.7	52.1	103	104	10-176	1	20	
Iodomethane	ug/L	ND	100	100	110	118	110	118	17-157	7	20	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	52.0	52.3	104	105	18-152	1	20	
Methyl-tert-butyl ether	ug/L	ND	100	100	109	111	109	111	63-130	2	20	
Methylene Chloride	ug/L	ND	50	50	61.6	64.1	123	128	45-156	4	20	
n-Butylbenzene	ug/L	ND	50	50	50.4	50.7	101	101	10-161	1	20	
n-Hexane	ug/L	ND	50	50	53.2	53.3	106	107	33-144	0	20	N2
n-Propylbenzene	ug/L	ND	50	50	49.2	49.4	98	99	16-150	0	20	
Naphthalene	ug/L	ND	50	50	58.4	59.7	117	119	39-140	2	20	
p-Isopropyltoluene	ug/L	ND	50	50	49.7	50.4	99	101	10-163	1	20	
sec-Butylbenzene	ug/L	ND	50	50	52.1	52.6	104	105	10-160	1	20	
Styrene	ug/L	ND	50	50	52.6	51.6	105	103	36-139	2	20	
tert-Butylbenzene	ug/L	ND	50	50	49.0	49.8	98	100	12-134	2	20	
Tetrachloroethene	ug/L	ND	50	50	49.0	48.7	98	97	33-151	1	20	
Toluene	ug/L	ND	50	50	46.4	46.4	93	93	50-132	0	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	57.3	58.1	115	116	40-153	2	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	51.9	53.0	104	106	48-122	2	20	
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	193	192	97	96	32-139	1	20	
Trichloroethene	ug/L	ND	50	50	60.1	60.2	112	112	50-143	0	20	
Trichlorofluoromethane	ug/L	ND	50	50	59.3	58.2	119	116	60-175	2	20	
Vinyl acetate	ug/L	ND	200	200	160	160	80	80	17-142	0	20	
Vinyl chloride	ug/L	ND	50	50	52.4	54.5	105	109	44-145	4	20	
Xylene (Total)	ug/L	ND	150	150	158	159	105	106	29-145	1	20	
4-Bromofluorobenzene (S)	%						100	100	80-114			
Dibromofluoromethane (S)	%						106	106	79-116			
Toluene-d8 (S)	%						91	91	81-110			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

QC Batch: MSV/60356 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001011, 5091001012, 5091001013, 5091001014

METHOD BLANK: 1029707 Matrix: Water
 Associated Lab Samples: 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001011, 5091001012, 5091001013, 5091001014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,1-Dichloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,1-Dichloroethene	ug/L	ND	5.0	12/18/13 01:59	
1,1-Dichloropropene	ug/L	ND	5.0	12/18/13 01:59	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/18/13 01:59	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/18/13 01:59	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/18/13 01:59	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
1,2-Dichloroethane	ug/L	ND	5.0	12/18/13 01:59	
1,2-Dichloropropane	ug/L	ND	5.0	12/18/13 01:59	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/18/13 01:59	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
1,3-Dichloropropane	ug/L	ND	5.0	12/18/13 01:59	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
2,2-Dichloropropane	ug/L	ND	5.0	12/18/13 01:59	
2-Butanone (MEK)	ug/L	ND	25.0	12/18/13 01:59	
2-Chlorotoluene	ug/L	ND	5.0	12/18/13 01:59	
2-Hexanone	ug/L	ND	25.0	12/18/13 01:59	
4-Chlorotoluene	ug/L	ND	5.0	12/18/13 01:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/18/13 01:59	
Acetone	ug/L	ND	100	12/18/13 01:59	
Acrolein	ug/L	ND	50.0	12/18/13 01:59	
Acrylonitrile	ug/L	ND	100	12/18/13 01:59	
Benzene	ug/L	ND	5.0	12/18/13 01:59	
Bromobenzene	ug/L	ND	5.0	12/18/13 01:59	
Bromochloromethane	ug/L	ND	5.0	12/18/13 01:59	
Bromodichloromethane	ug/L	ND	5.0	12/18/13 01:59	
Bromoform	ug/L	ND	5.0	12/18/13 01:59	
Bromomethane	ug/L	ND	5.0	12/18/13 01:59	
Carbon disulfide	ug/L	ND	10.0	12/18/13 01:59	
Carbon tetrachloride	ug/L	ND	5.0	12/18/13 01:59	
Chlorobenzene	ug/L	ND	5.0	12/18/13 01:59	
Chloroethane	ug/L	ND	5.0	12/18/13 01:59	
Chloroform	ug/L	ND	5.0	12/18/13 01:59	
Chloromethane	ug/L	ND	5.0	12/18/13 01:59	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/18/13 01:59	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

METHOD BLANK: 1029707

Matrix: Water

Associated Lab Samples: 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001011, 5091001012, 5091001013, 5091001014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/18/13 01:59	
Dibromochloromethane	ug/L	ND	5.0	12/18/13 01:59	
Dibromomethane	ug/L	ND	5.0	12/18/13 01:59	
Dichlorodifluoromethane	ug/L	ND	5.0	12/18/13 01:59	
Ethyl methacrylate	ug/L	ND	100	12/18/13 01:59	
Ethylbenzene	ug/L	ND	5.0	12/18/13 01:59	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/18/13 01:59	
Iodomethane	ug/L	ND	10.0	12/18/13 01:59	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/18/13 01:59	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/18/13 01:59	
Methylene Chloride	ug/L	ND	5.0	12/18/13 01:59	
n-Butylbenzene	ug/L	ND	5.0	12/18/13 01:59	
n-Hexane	ug/L	ND	5.0	12/18/13 01:59	N2
n-Propylbenzene	ug/L	ND	5.0	12/18/13 01:59	
Naphthalene	ug/L	ND	5.0	12/18/13 01:59	
p-Isopropyltoluene	ug/L	ND	5.0	12/18/13 01:59	
sec-Butylbenzene	ug/L	ND	5.0	12/18/13 01:59	
Styrene	ug/L	ND	5.0	12/18/13 01:59	
tert-Butylbenzene	ug/L	ND	5.0	12/18/13 01:59	
Tetrachloroethene	ug/L	ND	5.0	12/18/13 01:59	
Toluene	ug/L	ND	5.0	12/18/13 01:59	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/18/13 01:59	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/18/13 01:59	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/18/13 01:59	
Trichloroethene	ug/L	ND	5.0	12/18/13 01:59	
Trichlorofluoromethane	ug/L	ND	5.0	12/18/13 01:59	
Vinyl acetate	ug/L	ND	50.0	12/18/13 01:59	
Vinyl chloride	ug/L	ND	2.0	12/18/13 01:59	
Xylene (Total)	ug/L	ND	10.0	12/18/13 01:59	
4-Bromofluorobenzene (S)	%	103	80-114	12/18/13 01:59	
Dibromofluoromethane (S)	%	104	79-116	12/18/13 01:59	
Toluene-d8 (S)	%	97	81-110	12/18/13 01:59	

LABORATORY CONTROL SAMPLE: 1029708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.2	110	61-135	
1,1,1-Trichloroethane	ug/L	50	55.5	111	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	49.2	98	66-126	
1,1,2-Trichloroethane	ug/L	50	46.8	94	77-130	
1,1-Dichloroethane	ug/L	50	48.2	96	75-130	
1,1-Dichloroethene	ug/L	50	54.7	109	68-127	
1,1-Dichloropropene	ug/L	50	51.9	104	78-130	
1,2,3-Trichlorobenzene	ug/L	50	58.0	116	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1029708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,3-Trichloropropane	ug/L	50	49.7	99	58-142	
1,2,4-Trichlorobenzene	ug/L	50	57.5	115	68-131	
1,2,4-Trimethylbenzene	ug/L	50	49.7	99	69-127	
1,2-Dibromoethane (EDB)	ug/L	50	51.6	103	76-125	
1,2-Dichlorobenzene	ug/L	50	50.5	101	75-123	
1,2-Dichloroethane	ug/L	50	50.9	102	75-128	
1,2-Dichloropropane	ug/L	50	49.2	98	74-121	
1,3,5-Trimethylbenzene	ug/L	50	50.3	101	70-126	
1,3-Dichlorobenzene	ug/L	50	49.7	99	74-122	
1,3-Dichloropropane	ug/L	50	48.6	97	74-123	
1,4-Dichlorobenzene	ug/L	50	51.0	102	76-120	
2,2-Dichloropropane	ug/L	50	49.5	99	50-137	
2-Butanone (MEK)	ug/L	250	242	97	58-139	
2-Chlorotoluene	ug/L	50	48.9	98	74-122	
2-Hexanone	ug/L	250	211	84	54-140	
4-Chlorotoluene	ug/L	50	52.0	104	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	213	85	58-138	
Acetone	ug/L	250	295	118	49-150	
Acrolein	ug/L	1000	1340	134	41-200	
Acrylonitrile	ug/L	1000	1040	104	63-137	
Benzene	ug/L	50	50.7	101	74-122	
Bromobenzene	ug/L	50	50.3	101	72-127	
Bromochloromethane	ug/L	50	41.1	82	63-132	
Bromodichloromethane	ug/L	50	55.5	111	62-136	
Bromoform	ug/L	50	44.4	89	44-134	
Bromomethane	ug/L	50	54.5	109	22-181	
Carbon disulfide	ug/L	100	117	117	59-132	
Carbon tetrachloride	ug/L	50	56.3	113	56-137	
Chlorobenzene	ug/L	50	52.5	105	78-123	
Chloroethane	ug/L	50	51.7	103	60-144	
Chloroform	ug/L	50	53.0	106	78-126	
Chloromethane	ug/L	50	41.6	83	42-134	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	75-122	
cis-1,3-Dichloropropene	ug/L	50	50.2	100	64-126	
Dibromochloromethane	ug/L	50	55.3	111	58-128	
Dibromomethane	ug/L	50	52.6	105	73-125	
Dichlorodifluoromethane	ug/L	50	43.2	86	35-181	
Ethyl methacrylate	ug/L	200	189	94	69-133	
Ethylbenzene	ug/L	50	50.8	102	66-133	
Hexachloro-1,3-butadiene	ug/L	50	51.0	102	59-145	
Iodomethane	ug/L	100	165	165	21-170	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	69-124	
Methyl-tert-butyl ether	ug/L	100	102	102	69-122	
Methylene Chloride	ug/L	50	60.6	121	68-132	
n-Butylbenzene	ug/L	50	53.5	107	70-126	
n-Hexane	ug/L	50	56.0	112	51-125 N2	
n-Propylbenzene	ug/L	50	49.7	99	71-122	
Naphthalene	ug/L	50	57.7	115	68-127	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1029708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
p-Isopropyltoluene	ug/L	50	51.0	102	72-132	
sec-Butylbenzene	ug/L	50	54.4	109	70-128	
Styrene	ug/L	50	52.4	105	74-126	
tert-Butylbenzene	ug/L	50	57.2	114	51-118	
Tetrachloroethene	ug/L	50	48.5	97	69-130	
Toluene	ug/L	50	47.5	95	72-122	
trans-1,2-Dichloroethene	ug/L	50	55.6	111	72-124	
trans-1,3-Dichloropropene	ug/L	50	51.1	102	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	197	99	56-133	
Trichloroethene	ug/L	50	52.4	105	76-126	
Trichlorofluoromethane	ug/L	50	55.3	111	76-149	
Vinyl acetate	ug/L	200	196	98	45-151	
Vinyl chloride	ug/L	50	50.9	102	59-126	
Xylene (Total)	ug/L	150	157	105	70-124	
4-Bromofluorobenzene (S)	%			99	80-114	
Dibromofluoromethane (S)	%			104	79-116	
Toluene-d8 (S)	%			95	81-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1029709 1029710

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		5091001010 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1,2-Tetrachloroethane	ug/L	ND	50	50	51.6	56.1	103	112	50-132	8	20	
1,1,1-Trichloroethane	ug/L	ND	50	50	55.4	58.4	111	117	60-138	5	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	46.1	47.5	92	95	55-128	3	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	45.5	48.2	91	96	61-139	6	20	
1,1-Dichloroethane	ug/L	ND	50	50	49.9	51.9	100	104	57-147	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	55.3	55.9	111	112	55-145	1	20	
1,1-Dichloropropene	ug/L	ND	50	50	49.7	53.2	99	106	55-147	7	20	
1,2,3-Trichlorobenzene	ug/L	ND	50	50	41.9	54.5	84	109	31-141	26	20	
1,2,3-Trichloropropane	ug/L	ND	50	50	47.5	49.7	95	99	58-133	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	38.4	52.0	77	104	25-143	30	20	
1,2,4-Trimethylbenzene	ug/L	ND	50	50	36.9	46.9	74	94	18-149	24	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	49.7	51.2	99	102	63-129	3	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.2	49.6	84	99	38-136	16	20	
1,2-Dichloroethane	ug/L	ND	50	50	52.6	54.5	105	109	62-138	4	20	
1,2-Dichloropropane	ug/L	ND	50	50	48.2	49.3	96	99	59-130	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	50	50	38.5	47.9	77	96	20-147	22	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	38.8	47.5	78	95	28-141	20	20	
1,3-Dichloropropane	ug/L	ND	50	50	45.5	47.6	91	95	62-127	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	39.0	48.9	78	98	30-139	23	20	
2,2-Dichloropropane	ug/L	ND	50	50	48.3	48.9	97	98	37-139	1	20	
2-Butanone (MEK)	ug/L	ND	250	250	309	314	124	125	37-156	1	20	
2-Chlorotoluene	ug/L	ND	50	50	38.9	47.1	78	94	27-142	19	20	
2-Hexanone	ug/L	ND	250	250	199	203	80	81	44-143	2	20	
4-Chlorotoluene	ug/L	ND	50	50	40.0	49.2	80	98	27-144	21	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	204	208	82	83	46-144	2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Parameter	5091001010		MS		MSD		MS		MSD		Max		Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	
Acetone	ug/L	ND	250	250	447	462	173	179	39-156	3	20	M0	
Acrolein	ug/L	ND	1000	1000	915	927	92	93	33-200	1	20		
Acrylonitrile	ug/L	ND	1000	1000	1020	1050	102	105	48-149	3	20		
Benzene	ug/L	ND	50	50	49.6	51.5	99	103	62-129	4	20		
Bromobenzene	ug/L	ND	50	50	41.6	47.7	83	95	39-140	14	20		
Bromochloromethane	ug/L	ND	50	50	42.2	42.4	84	85	49-142	0	20		
Bromodichloromethane	ug/L	ND	50	50	54.9	57.5	110	115	50-142	5	20		
Bromofom	ug/L	ND	50	50	42.9	45.2	86	90	36-125	5	20		
Bromomethane	ug/L	ND	50	50	54.1	60.7	108	121	13-179	11	20		
Carbon disulfide	ug/L	ND	100	100	113	117	113	117	45-142	4	20		
Carbon tetrachloride	ug/L	ND	50	50	55.4	58.9	111	118	46-142	6	20		
Chlorobenzene	ug/L	ND	50	50	46.7	51.8	93	104	49-136	10	20		
Chloroethane	ug/L	ND	50	50	52.4	54.1	105	108	47-160	3	20		
Chloroform	ug/L	ND	50	50	54.2	56.3	108	113	54-150	4	20		
Chloromethane	ug/L	ND	50	50	40.2	42.8	80	86	30-148	6	20		
cis-1,2-Dichloroethene	ug/L	ND	50	50	50.4	52.9	101	106	60-135	5	20		
cis-1,3-Dichloropropene	ug/L	ND	50	50	43.9	46.1	88	92	52-123	5	20		
Dibromochloromethane	ug/L	ND	50	50	52.0	56.1	104	112	48-125	7	20		
Dibromomethane	ug/L	ND	50	50	53.4	54.5	107	109	59-134	2	20		
Dichlorodifluoromethane	ug/L	ND	50	50	44.3	45.4	89	91	24-197	2	20		
Ethyl methacrylate	ug/L	ND	200	200	176	180	88	90	55-139	2	20		
Ethylbenzene	ug/L	ND	50	50	44.2	49.9	88	100	28-153	12	20		
Hexachloro-1,3-butadiene	ug/L	ND	50	50	26.9	47.3	54	95	10-176	55	20		
Iodomethane	ug/L	ND	100	100	181	193	181	193	17-157	6	20	M0	
Isopropylbenzene (Cumene)	ug/L	ND	50	50	42.3	50.3	85	101	18-152	17	20		
Methyl-tert-butyl ether	ug/L	ND	100	100	102	105	102	105	63-130	3	20		
Methylene Chloride	ug/L	ND	50	50	59.4	60.6	118	121	45-156	2	20		
n-Butylbenzene	ug/L	ND	50	50	33.0	49.9	66	100	10-161	41	20		
n-Hexane	ug/L	ND	50	50	46.9	65.6	94	131	33-144	33	20	N2	
n-Propylbenzene	ug/L	ND	50	50	38.4	47.5	77	95	16-150	21	20		
Naphthalene	ug/L	ND	50	50	48.3	57.5	97	115	39-140	17	20		
p-Isopropyltoluene	ug/L	ND	50	50	35.3	48.1	71	96	10-163	31	20		
sec-Butylbenzene	ug/L	ND	50	50	40.4	52.7	81	105	10-160	26	20		
Styrene	ug/L	ND	50	50	44.7	50.4	89	101	36-139	12	20		
tert-Butylbenzene	ug/L	ND	50	50	44.5	48.8	89	98	12-134	9	20		
Tetrachloroethene	ug/L	ND	50	50	43.0	46.9	86	94	33-151	9	20		
Toluene	ug/L	ND	50	50	43.7	46.3	87	92	50-132	6	20		
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.6	56.5	107	113	40-153	5	20		
trans-1,3-Dichloropropene	ug/L	ND	50	50	44.1	47.1	88	94	48-122	7	20		
trans-1,4-Dichloro-2-butene	ug/L	ND	200	200	168	177	84	88	32-139	5	20		
Trichloroethene	ug/L	ND	50	50	50.7	54.6	100	108	50-143	7	20		
Trichlorofluoromethane	ug/L	ND	50	50	57.8	59.9	116	120	60-175	4	20		
Vinyl acetate	ug/L	ND	200	200	116	118	58	59	17-142	2	20		
Vinyl chloride	ug/L	ND	50	50	51.0	52.6	102	105	44-145	3	20		
Xylene (Total)	ug/L	ND	150	150	135	152	90	102	29-145	12	20		
4-Bromofluorobenzene (S)	%						99	98	80-114				
Dibromofluoromethane (S)	%						105	107	79-116			1d	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1029709		1029710									
Parameter	Units	5091001010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Toluene-d8 (S)	%						93	92	81-110				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

QC Batch: MSV/60390 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 5091001015, 5091001016

METHOD BLANK: 1030399 Matrix: Water

Associated Lab Samples: 5091001015, 5091001016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,1,1-Trichloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,1-Dichloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,1-Dichloroethene	ug/L	ND	5.0	12/18/13 17:42	
1,1-Dichloropropene	ug/L	ND	5.0	12/18/13 17:42	
1,2,3-Trichlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
1,2,3-Trichloropropane	ug/L	ND	5.0	12/18/13 17:42	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
1,2,4-Trimethylbenzene	ug/L	ND	5.0	12/18/13 17:42	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	12/18/13 17:42	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
1,2-Dichloroethane	ug/L	ND	5.0	12/18/13 17:42	
1,2-Dichloropropane	ug/L	ND	5.0	12/18/13 17:42	
1,3,5-Trimethylbenzene	ug/L	ND	5.0	12/18/13 17:42	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
1,3-Dichloropropane	ug/L	ND	5.0	12/18/13 17:42	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
2,2-Dichloropropane	ug/L	ND	5.0	12/18/13 17:42	
2-Butanone (MEK)	ug/L	ND	25.0	12/18/13 17:42	
2-Chlorotoluene	ug/L	ND	5.0	12/18/13 17:42	
2-Hexanone	ug/L	ND	25.0	12/18/13 17:42	
4-Chlorotoluene	ug/L	ND	5.0	12/18/13 17:42	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	12/18/13 17:42	
Acetone	ug/L	ND	100	12/18/13 17:42	
Acrolein	ug/L	ND	50.0	12/18/13 17:42	
Acrylonitrile	ug/L	ND	100	12/18/13 17:42	
Benzene	ug/L	ND	5.0	12/18/13 17:42	
Bromobenzene	ug/L	ND	5.0	12/18/13 17:42	
Bromochloromethane	ug/L	ND	5.0	12/18/13 17:42	
Bromodichloromethane	ug/L	ND	5.0	12/18/13 17:42	
Bromoform	ug/L	ND	5.0	12/18/13 17:42	
Bromomethane	ug/L	ND	5.0	12/18/13 17:42	
Carbon disulfide	ug/L	ND	10.0	12/18/13 17:42	
Carbon tetrachloride	ug/L	ND	5.0	12/18/13 17:42	
Chlorobenzene	ug/L	ND	5.0	12/18/13 17:42	
Chloroethane	ug/L	ND	5.0	12/18/13 17:42	
Chloroform	ug/L	ND	5.0	12/18/13 17:42	
Chloromethane	ug/L	ND	5.0	12/18/13 17:42	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/18/13 17:42	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/18/13 17:42	
Dibromochloromethane	ug/L	ND	5.0	12/18/13 17:42	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

METHOD BLANK: 1030399

Matrix: Water

Associated Lab Samples: 5091001015, 5091001016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	5.0	12/18/13 17:42	
Dichlorodifluoromethane	ug/L	ND	5.0	12/18/13 17:42	
Ethyl methacrylate	ug/L	ND	100	12/18/13 17:42	
Ethylbenzene	ug/L	ND	5.0	12/18/13 17:42	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	12/18/13 17:42	
Iodomethane	ug/L	ND	10.0	12/18/13 17:42	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	12/18/13 17:42	
Methyl-tert-butyl ether	ug/L	ND	4.0	12/18/13 17:42	
Methylene Chloride	ug/L	5.5	5.0	12/18/13 17:42	
n-Butylbenzene	ug/L	ND	5.0	12/18/13 17:42	
n-Hexane	ug/L	ND	5.0	12/18/13 17:42	N2
n-Propylbenzene	ug/L	ND	5.0	12/18/13 17:42	
Naphthalene	ug/L	ND	5.0	12/18/13 17:42	
p-Isopropyltoluene	ug/L	ND	5.0	12/18/13 17:42	
sec-Butylbenzene	ug/L	ND	5.0	12/18/13 17:42	
Styrene	ug/L	ND	5.0	12/18/13 17:42	
tert-Butylbenzene	ug/L	ND	5.0	12/18/13 17:42	
Tetrachloroethene	ug/L	ND	5.0	12/18/13 17:42	
Toluene	ug/L	ND	5.0	12/18/13 17:42	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/18/13 17:42	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/18/13 17:42	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	12/18/13 17:42	
Trichloroethene	ug/L	ND	5.0	12/18/13 17:42	
Trichlorofluoromethane	ug/L	ND	5.0	12/18/13 17:42	
Vinyl acetate	ug/L	ND	50.0	12/18/13 17:42	
Vinyl chloride	ug/L	ND	2.0	12/18/13 17:42	
Xylene (Total)	ug/L	ND	10.0	12/18/13 17:42	
4-Bromofluorobenzene (S)	%	98	80-114	12/18/13 17:42	
Dibromofluoromethane (S)	%	105	79-116	12/18/13 17:42	
Toluene-d8 (S)	%	97	81-110	12/18/13 17:42	

LABORATORY CONTROL SAMPLE: 1030400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.7	109	61-135	
1,1,1-Trichloroethane	ug/L	50	55.1	110	71-129	
1,1,2,2-Tetrachloroethane	ug/L	50	48.4	97	66-126	
1,1,2-Trichloroethane	ug/L	50	47.3	95	77-130	
1,1-Dichloroethane	ug/L	50	35.3	71	75-130	
1,1-Dichloroethene	ug/L	50	54.4	109	68-127	L0
1,1-Dichloropropene	ug/L	50	50.9	102	78-130	
1,2,3-Trichlorobenzene	ug/L	50	58.4	117	70-130	
1,2,3-Trichloropropane	ug/L	50	49.4	99	58-142	
1,2,4-Trichlorobenzene	ug/L	50	58.2	116	68-131	
1,2,4-Trimethylbenzene	ug/L	50	48.2	96	69-127	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1030400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	76-125	
1,2-Dichlorobenzene	ug/L	50	50.0	100	75-123	
1,2-Dichloroethane	ug/L	50	52.2	104	75-128	
1,2-Dichloropropane	ug/L	50	47.6	95	74-121	
1,3,5-Trimethylbenzene	ug/L	50	49.2	98	70-126	
1,3-Dichlorobenzene	ug/L	50	49.3	99	74-122	
1,3-Dichloropropane	ug/L	50	47.6	95	74-123	
1,4-Dichlorobenzene	ug/L	50	50.8	102	76-120	
2,2-Dichloropropane	ug/L	50	54.3	109	50-137	
2-Butanone (MEK)	ug/L	250	251	100	58-139	
2-Chlorotoluene	ug/L	50	47.1	94	74-122	
2-Hexanone	ug/L	250	206	82	54-140	
4-Chlorotoluene	ug/L	50	50.7	101	77-123	
4-Methyl-2-pentanone (MIBK)	ug/L	250	210	84	58-138	
Acetone	ug/L	250	332	133	49-150	
Acrolein	ug/L	1000	1390	139	41-200	
Acrylonitrile	ug/L	1000	1010	101	63-137	
Benzene	ug/L	50	49.3	99	74-122	
Bromobenzene	ug/L	50	49.7	99	72-127	
Bromochloromethane	ug/L	50	41.2	82	63-132	
Bromodichloromethane	ug/L	50	55.6	111	62-136	
Bromoform	ug/L	50	43.4	87	44-134	
Bromomethane	ug/L	50	60.3	121	22-181	
Carbon disulfide	ug/L	100	114	114	59-132	
Carbon tetrachloride	ug/L	50	56.1	112	56-137	
Chlorobenzene	ug/L	50	51.8	104	78-123	
Chloroethane	ug/L	50	52.2	104	60-144	
Chloroform	ug/L	50	53.3	107	78-126	
Chloromethane	ug/L	50	39.9	80	42-134	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	75-122	
cis-1,3-Dichloropropene	ug/L	50	49.7	99	64-126	
Dibromochloromethane	ug/L	50	55.7	111	58-128	
Dibromomethane	ug/L	50	52.9	106	73-125	
Dichlorodifluoromethane	ug/L	50	41.7	83	35-181	
Ethyl methacrylate	ug/L	200	183	91	69-133	
Ethylbenzene	ug/L	50	50.0	100	66-133	
Hexachloro-1,3-butadiene	ug/L	50	50.8	102	59-145	
Iodomethane	ug/L	100	182	182	21-170 L3	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	69-124	
Methyl-tert-butyl ether	ug/L	100	101	101	69-122	
Methylene Chloride	ug/L	50	69.1	138	68-132 L3	
n-Butylbenzene	ug/L	50	53.0	106	70-126	
n-Hexane	ug/L	50	47.2	94	51-125 N2	
n-Propylbenzene	ug/L	50	49.4	99	71-122	
Naphthalene	ug/L	50	59.2	118	68-127	
p-Isopropyltoluene	ug/L	50	50.1	100	72-132	
sec-Butylbenzene	ug/L	50	53.5	107	70-128	
Styrene	ug/L	50	52.2	104	74-126	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1030400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	50	48.9	98	51-118	
Tetrachloroethene	ug/L	50	47.9	96	69-130	
Toluene	ug/L	50	46.4	93	72-122	
trans-1,2-Dichloroethene	ug/L	50	54.5	109	72-124	
trans-1,3-Dichloropropene	ug/L	50	51.4	103	64-121	
trans-1,4-Dichloro-2-butene	ug/L	200	212	106	56-133	
Trichloroethene	ug/L	50	52.7	105	76-126	
Trichlorofluoromethane	ug/L	50	55.8	112	76-149	
Vinyl acetate	ug/L	200	132	66	45-151	
Vinyl chloride	ug/L	50	50.2	100	59-126	
Xylene (Total)	ug/L	150	155	104	70-124	
4-Bromofluorobenzene (S)	%			100	80-114	
Dibromofluoromethane (S)	%			105	79-116	
Toluene-d8 (S)	%			93	81-110	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

QC Batch: OEXT/34610 Analysis Method: EPA 8270 by SIM LVE
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH LV by SIM MSSV
 Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005, 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001013

METHOD BLANK: 1025373 Matrix: Water
 Associated Lab Samples: 5091001001, 5091001002, 5091001003, 5091001004, 5091001005, 5091001006, 5091001007, 5091001008, 5091001009, 5091001010, 5091001013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	12/12/13 01:03	N2
2-Methylnaphthalene	ug/L	ND	1.0	12/12/13 01:03	
Acenaphthene	ug/L	ND	1.0	12/12/13 01:03	
Acenaphthylene	ug/L	ND	1.0	12/12/13 01:03	
Anthracene	ug/L	ND	0.10	12/12/13 01:03	
Benzo(a)anthracene	ug/L	ND	0.10	12/12/13 01:03	
Benzo(a)pyrene	ug/L	ND	0.10	12/12/13 01:03	
Benzo(b)fluoranthene	ug/L	ND	0.10	12/12/13 01:03	
Benzo(g,h,i)perylene	ug/L	ND	0.10	12/12/13 01:03	
Benzo(k)fluoranthene	ug/L	ND	0.10	12/12/13 01:03	
Chrysene	ug/L	ND	0.50	12/12/13 01:03	
Dibenz(a,h)anthracene	ug/L	ND	0.10	12/12/13 01:03	
Fluoranthene	ug/L	ND	1.0	12/12/13 01:03	
Fluorene	ug/L	ND	1.0	12/12/13 01:03	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	12/12/13 01:03	
Naphthalene	ug/L	ND	1.0	12/12/13 01:03	
Phenanthrene	ug/L	ND	1.0	12/12/13 01:03	
Pyrene	ug/L	ND	1.0	12/12/13 01:03	
2-Fluorobiphenyl (S)	%	88	21-114	12/12/13 01:03	
p-Terphenyl-d14 (S)	%	107	25-131	12/12/13 01:03	

LABORATORY CONTROL SAMPLE: 1025374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	6.5	65	29-112	N2
2-Methylnaphthalene	ug/L	10	6.4	64	29-110	
Acenaphthene	ug/L	10	7.4	74	39-117	
Acenaphthylene	ug/L	10	7.2	72	40-120	
Anthracene	ug/L	10	7.9	79	48-126	
Benzo(a)anthracene	ug/L	10	8.2	82	51-134	
Benzo(a)pyrene	ug/L	10	8.8	88	48-141	
Benzo(b)fluoranthene	ug/L	10	8.7	87	49-139	
Benzo(g,h,i)perylene	ug/L	10	8.2	82	44-134	
Benzo(k)fluoranthene	ug/L	10	9.3	93	48-140	
Chrysene	ug/L	10	8.8	88	53-136	
Dibenz(a,h)anthracene	ug/L	10	8.1	81	44-132	
Fluoranthene	ug/L	10	8.7	87	50-135	
Fluorene	ug/L	10	7.9	79	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	8.2	82	45-132	
Naphthalene	ug/L	10	6.2	62	30-112	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1025374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	10	8.2	82	47-128	
Pyrene	ug/L	10	8.4	84	50-134	
2-Fluorobiphenyl (S)	%.			70	21-114	
p-Terphenyl-d14 (S)	%.			81	25-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025375 1025376

Parameter	Units	5091001010		MSD		MSD		% Rec		Max		Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits	RPD	RPD	
1-Methylnaphthalene	ug/L	ND	10	10	6.3	6.5	63	65	10-135	3	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	6.2	6.4	62	64	16-116	3	20	
Acenaphthene	ug/L	ND	10	10	7.5	7.4	75	74	28-116	1	20	
Acenaphthylene	ug/L	ND	10	10	7.6	7.7	76	77	34-115	1	20	
Anthracene	ug/L	ND	10	10	9.2	9.4	92	94	39-121	1	20	
Benzo(a)anthracene	ug/L	ND	10	10	8.9	9.0	89	90	31-127	1	20	
Benzo(a)pyrene	ug/L	ND	10	10	8.3	8.3	83	83	10-121	1	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	8.3	8.4	83	84	10-119	0	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	6.6	6.8	66	68	10-108	3	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	8.9	9.0	89	90	10-118	1	20	
Chrysene	ug/L	ND	10	10	9.6	9.6	96	96	32-127	0	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	6.5	6.7	65	67	10-104	2	20	
Fluoranthene	ug/L	ND	10	10	10.2	10.2	102	102	38-131	0	20	
Fluorene	ug/L	ND	10	10	8.6	8.6	86	86	33-121	1	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	6.5	6.7	65	67	10-108	3	20	
Naphthalene	ug/L	ND	10	10	6.6	6.9	66	69	16-119	4	20	
Phenanthrene	ug/L	ND	10	10	9.3	9.4	93	94	32-130	1	20	
Pyrene	ug/L	ND	10	10	9.8	9.9	98	99	39-131	2	20	
2-Fluorobiphenyl (S)	%.						81	77	21-114		20	
p-Terphenyl-d14 (S)	%.						69	72	25-131		20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

QC Batch: OEXT/34617

Analysis Method: EPA 8270 by SIM LVE

QC Batch Method: EPA 3510

Analysis Description: 8270 Water PAH LV by SIM MSSV

Associated Lab Samples: 5091001011, 5091001012

METHOD BLANK: 1025573

Matrix: Water

Associated Lab Samples: 5091001011, 5091001012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	ND	1.0	12/11/13 17:33	N2
2-Methylnaphthalene	ug/L	ND	1.0	12/11/13 17:33	
Acenaphthene	ug/L	ND	1.0	12/11/13 17:33	
Acenaphthylene	ug/L	ND	1.0	12/11/13 17:33	
Anthracene	ug/L	ND	0.10	12/11/13 17:33	
Benzo(a)anthracene	ug/L	ND	0.10	12/11/13 17:33	
Benzo(a)pyrene	ug/L	ND	0.10	12/11/13 17:33	
Benzo(b)fluoranthene	ug/L	ND	0.10	12/11/13 17:33	
Benzo(g,h,i)perylene	ug/L	ND	0.10	12/11/13 17:33	
Benzo(k)fluoranthene	ug/L	ND	0.10	12/11/13 17:33	
Chrysene	ug/L	ND	0.50	12/11/13 17:33	
Dibenz(a,h)anthracene	ug/L	ND	0.10	12/11/13 17:33	
Fluoranthene	ug/L	ND	1.0	12/11/13 17:33	
Fluorene	ug/L	ND	1.0	12/11/13 17:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.10	12/11/13 17:33	
Naphthalene	ug/L	ND	1.0	12/11/13 17:33	
Phenanthrene	ug/L	ND	1.0	12/11/13 17:33	
Pyrene	ug/L	ND	1.0	12/11/13 17:33	
2-Fluorobiphenyl (S)	%	82	21-114	12/11/13 17:33	
p-Terphenyl-d14 (S)	%	99	25-131	12/11/13 17:33	

LABORATORY CONTROL SAMPLE: 1025574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	10	7.9	79	29-112	N2
2-Methylnaphthalene	ug/L	10	7.9	79	29-110	
Acenaphthene	ug/L	10	8.8	88	39-117	
Acenaphthylene	ug/L	10	8.7	87	40-120	
Anthracene	ug/L	10	9.4	94	48-126	
Benzo(a)anthracene	ug/L	10	9.7	97	51-134	
Benzo(a)pyrene	ug/L	10	10.2	102	48-141	
Benzo(b)fluoranthene	ug/L	10	10.4	104	49-139	
Benzo(g,h,i)perylene	ug/L	10	10.1	101	44-134	
Benzo(k)fluoranthene	ug/L	10	11.0	110	48-140	
Chrysene	ug/L	10	10.3	103	53-136	
Dibenz(a,h)anthracene	ug/L	10	10.1	101	44-132	
Fluoranthene	ug/L	10	10.5	105	50-135	
Fluorene	ug/L	10	9.4	94	44-124	
Indeno(1,2,3-cd)pyrene	ug/L	10	10.0	100	45-132	
Naphthalene	ug/L	10	7.8	78	30-112	
Phenanthrene	ug/L	10	9.7	97	47-128	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

LABORATORY CONTROL SAMPLE: 1025574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	10	10	100	50-134	
2-Fluorobiphenyl (S)	%.			84	21-114	
p-Terphenyl-d14 (S)	%.			91	25-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025575 1025576

Parameter	Units	5091039002		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/L		10	10	10	7.0	6.8	70	68	10-135	4	20	N2
2-Methylnaphthalene	ug/L	ND	10	10	10	6.9	6.7	69	67	16-116	3	20	
Acenaphthene	ug/L	ND	10	10	10	8.1	7.8	81	78	28-116	4	20	
Acenaphthylene	ug/L	ND	10	10	10	8.2	7.9	82	79	34-115	4	20	
Anthracene	ug/L	ND	10	10	10	9.0	8.7	90	87	39-121	3	20	
Benzo(a)anthracene	ug/L	ND	10	10	10	7.3	7.5	73	75	31-127	2	20	
Benzo(a)pyrene	ug/L	ND	10	10	10	6.0	6.3	60	63	10-121	6	20	
Benzo(b)fluoranthene	ug/L	ND	10	10	10	6.3	6.7	63	67	10-119	7	20	
Benzo(g,h,i)perylene	ug/L	ND	10	10	10	5.3	5.5	53	55	10-108	5	20	
Benzo(k)fluoranthene	ug/L	ND	10	10	10	6.4	6.7	64	67	10-118	4	20	
Chrysene	ug/L	ND	10	10	10	7.5	7.7	75	77	32-127	3	20	
Dibenz(a,h)anthracene	ug/L	ND	10	10	10	5.3	5.6	53	56	10-104	5	20	
Fluoranthene	ug/L	ND	10	10	10	10	9.6	100	96	38-131	4	20	
Fluorene	ug/L	ND	10	10	10	9.0	8.6	90	86	33-121	5	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10	10	10	5.3	5.5	53	55	10-108	4	20	
Naphthalene	ug/L	ND	10	10	10	7.0	6.9	70	69	16-119	1	20	
Phenanthrene	ug/L	ND	10	10	10	9.3	9.0	93	90	32-130	3	20	
Pyrene	ug/L	ND	10	10	10	9.4	9.1	94	91	39-131	3	20	
2-Fluorobiphenyl (S)	%.							74	73	21-114		20	
p-Terphenyl-d14 (S)	%.							62	61	25-131		20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025577 1025578

Parameter	Units	5091035008		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/L	ND	11.8	11.8	12.5	5.3	6.0	45	48	10-135	12	20	N2
2-Methylnaphthalene	ug/L	ND	11.8	11.8	12.5	5.2	5.9	44	47	16-116	13	20	
Acenaphthene	ug/L	ND	11.8	11.8	12.5	6.4	7.5	54	60	28-116	15	20	
Acenaphthylene	ug/L	ND	11.8	11.8	12.5	6.7	7.8	57	62	34-115	16	20	
Anthracene	ug/L	ND	11.8	11.8	12.5	8.9	9.8	75	78	39-121	10	20	
Benzo(a)anthracene	ug/L	ND	11.8	11.8	12.5	8.6	9.3	73	74	31-127	7	20	
Benzo(a)pyrene	ug/L	ND	11.8	11.8	12.5	8.9	9.3	75	74	10-121	4	20	
Benzo(b)fluoranthene	ug/L	ND	11.8	11.8	12.5	8.8	9.5	75	76	10-119	7	20	
Benzo(g,h,i)perylene	ug/L	ND	11.8	11.8	12.5	7.9	8.7	67	69	10-108	9	20	
Benzo(k)fluoranthene	ug/L	ND	11.8	11.8	12.5	9.4	10.1	80	81	10-118	8	20	
Chrysene	ug/L	ND	11.8	11.8	12.5	9.4	10.1	80	80	32-127	7	20	
Dibenz(a,h)anthracene	ug/L	ND	11.8	11.8	12.5	8.0	8.5	68	68	10-104	6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: City of New Albany: Hitch&Haul

Pace Project No.: 5091001

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1025577		1025578		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		5091035008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Fluoranthene	ug/L	ND	11.8	12.5	9.8	10.5	83	84	38-131	7	20	
Fluorene	ug/L	ND	11.8	12.5	8.0	9.1	68	73	33-121	13	20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	11.8	12.5	7.9	8.5	67	68	10-108	8	20	
Naphthalene	ug/L	ND	11.8	12.5	5.6	6.3	48	51	16-119	12	20	
Phenanthrene	ug/L	ND	11.8	12.5	9.0	10.0	76	80	32-130	11	20	
Pyrene	ug/L	ND	11.8	12.5	9.2	9.9	78	80	39-131	8	20	
2-Fluorobiphenyl (S)	%						58	61	21-114		20	
p-Terphenyl-d14 (S)	%						64	61	25-131		20	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: City of New Albany: Hitch&Haul
Pace Project No.: 5091001

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- 1d Several compounds are outside of acceptance limits for RPD value. Refer to the LCS for system control. grm 12-18-13
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
- N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: City of New Albany: Hitch&Haul
Pace Project No.: 5091001

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5091001001	HH-GW-GP-1	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001002	HH-GW-GP-2	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001003	HH-GW-GP-3	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001004	HH-GW-GP-4	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001005	HH-GW-GP-5	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001006	HH-GW-GP-6	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001007	HH-GW-GP-7	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001008	HH-GW-GP-8	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001009	HH-GW-GP-9	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001010	HH-GW-GP-10	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001011	HH-GW-GP-11	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001012	HH-GW-GP-12	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001013	HH-GW-GP-13	EPA 3010	MPRP/12601	EPA 6010	ICP/14077
5091001001	HH-GW-GP-1	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001002	HH-GW-GP-2	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001003	HH-GW-GP-3	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001004	HH-GW-GP-4	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001005	HH-GW-GP-5	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001006	HH-GW-GP-6	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001007	HH-GW-GP-7	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001008	HH-GW-GP-8	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001009	HH-GW-GP-9	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001010	HH-GW-GP-10	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001011	HH-GW-GP-11	EPA 3510	OEXT/34617	EPA 8270 by SIM LVE	MSSV/14141
5091001012	HH-GW-GP-12	EPA 3510	OEXT/34617	EPA 8270 by SIM LVE	MSSV/14141
5091001013	HH-GW-GP-13	EPA 3510	OEXT/34610	EPA 8270 by SIM LVE	MSSV/14138
5091001001	HH-GW-GP-1	EPA 8260	MSV/60302		
5091001002	HH-GW-GP-2	EPA 8260	MSV/60302		
5091001003	HH-GW-GP-3	EPA 8260	MSV/60302		
5091001004	HH-GW-GP-4	EPA 8260	MSV/60302		
5091001005	HH-GW-GP-5	EPA 8260	MSV/60302		
5091001006	HH-GW-GP-6	EPA 8260	MSV/60356		
5091001007	HH-GW-GP-7	EPA 8260	MSV/60356		
5091001008	HH-GW-GP-8	EPA 8260	MSV/60356		
5091001009	HH-GW-GP-9	EPA 8260	MSV/60356		
5091001010	HH-GW-GP-10	EPA 8260	MSV/60356		
5091001011	HH-GW-GP-11	EPA 8260	MSV/60356		
5091001012	HH-GW-GP-12	EPA 8260	MSV/60356		
5091001013	HH-GW-GP-13	EPA 8260	MSV/60356		
5091001014	HH-GW-GP-SBD	EPA 8260	MSV/60356		
5091001015	HH-GW-GP-FEB	EPA 8260	MSV/60390		
5091001016	HH-GW-GP-TB	EPA 8260	MSV/60390		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: **SAMS** Report To: **OT**

Section B Required Project Information: Invoice Information: Attention: **OT** Company Name: **SAMS**

Section C Regulatory Agency: **1712238**

Address: **5091001**

Phone: **5091001** Fax: **5091001**

Requested Due Date/TAT: **12/10/13**

Project Name: **RAH**

Project Number: **5091001**

Site Location: **RAH**

State: **PA**

Ground Water NPDES Drinking Water Other

UST RCRA

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / .)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Analysis Test ↑ V/N	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB					
1	HH-GW-GP-4	DW WT WW P SL OL WP AR TS OT	HH-GW-GP-4	G	DATE: 12/5/13 TIME: 2:45	DATE: 12/5/13 TIME: 2:45	3	H2SO4 HNO3 HCl NaOH Na2S2O8 Methanol Other	✓	RAH	5091001
2	HH-GW-GP-4		HH-GW-GP-4	G	DATE: 12/5/13 TIME: 2:45	DATE: 12/5/13 TIME: 2:45	2	Unpreserved	✓	RAH	5091001
3	HH-GW-GP-4		HH-GW-GP-4	G	DATE: 12/5/13 TIME: 2:45	DATE: 12/5/13 TIME: 2:45	1	Unpreserved	✓	RAH	5091001
4											
5	HH-GW-GP-5		HH-GW-GP-5	G	DATE: 12/5/13 TIME: 2:00	DATE: 12/5/13 TIME: 2:00	3	H2SO4 HNO3 HCl NaOH Na2S2O8 Methanol Other	✓	RAH	5091001
6	HH-GW-GP-5		HH-GW-GP-5	G	DATE: 12/5/13 TIME: 2:00	DATE: 12/5/13 TIME: 2:00	2	Unpreserved	✓	RAH	5091001
7	HH-GW-GP-5		HH-GW-GP-5	G	DATE: 12/5/13 TIME: 2:00	DATE: 12/5/13 TIME: 2:00	1	Unpreserved	✓	RAH	5091001
8											
9	HH-GW-GP-6		HH-GW-GP-6	G	DATE: 12/5/13 TIME: 1:10	DATE: 12/5/13 TIME: 1:10	3	H2SO4 HNO3 HCl NaOH Na2S2O8 Methanol Other	✓	RAH	5091001
10	HH-GW-GP-6		HH-GW-GP-6	G	DATE: 12/5/13 TIME: 1:10	DATE: 12/5/13 TIME: 1:10	2	Unpreserved	✓	RAH	5091001
11	HH-GW-GP-6		HH-GW-GP-6	G	DATE: 12/5/13 TIME: 1:10	DATE: 12/5/13 TIME: 1:10	1	Unpreserved	✓	RAH	5091001
12											

ADDITIONAL COMMENTS
Level IV AA/OX

RELINQUISHED BY / AFFILIATION
Marta Somoff

DATE
12/10/13

TIME
11:54

ACCEPTED BY / AFFILIATION
Marta Somoff

DATE
12/10/13

TIME
11:54

SAMPLE CONDITIONS
Temp In °C: 0.7°C

Received on: Custody Sealed: Samples Intact:

Temp In °C:

Received on:

Custody Sealed:

Samples Intact:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: **Nelson Ferree**
SIGNATURE of SAMPLER: *Nelson Ferree*
DATE Signed (MM/DD/YYYY): **12/9/13**

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Same Report To: AS / of / Copy To: AS / of /

Section B Required Project Information: Invoice Information: Attention: 1754920 Company Name: REGULATORY AGENCY

Section C Project Information: Project Name: RCRA Project Number: 1754920 Matrix Code: WT 6 Matrix Type: (G=GRAB C=COMP) Sample Temp at Collection: 0.8°C

Section D Required Client Information: Sample ID: 5091001 (A-Z, 0-9 / -) Sample IDs must be unique

ITEM #	Matrix Codes MATRIX / CODE	Matrix Codes DW WT WW P SL OI WP AR TS OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
			COMPOSITE START	COMPOSITE END/GRAB													
1	HH-GW-GP-7	Drinking Water		12/3/13	12:10	WT 6	12/3/13	12:10	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
2	HH-GW-GP-7	Drinking Water		12/3/13	12:10	WT 6	12/3/13	12:10	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
3	HH-GW-GP-7	Drinking Water		12/3/13	12:10	WT 6	12/3/13	12:10	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
4	HH-GW-GP-8	Drinking Water		12/3/13	11:35	WT 6	12/3/13	11:35	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
5	HH-GW-GP-8	Drinking Water		12/3/13	11:35	WT 6	12/3/13	11:35	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
6	HH-GW-GP-8	Drinking Water		12/3/13	11:35	WT 6	12/3/13	11:35	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
7	HH-GW-GP-8	Drinking Water		12/3/13	11:35	WT 6	12/3/13	11:35	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
8	HH-GW-GP-9	Drinking Water		12/3/13	10:55	WT 6	12/3/13	10:55	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
9	HH-GW-GP-9	Drinking Water		12/3/13	10:55	WT 6	12/3/13	10:55	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
10	HH-GW-GP-9	Drinking Water		12/3/13	10:55	WT 6	12/3/13	10:55	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
11	HH-GW-GP-9	Drinking Water		12/3/13	10:55	WT 6	12/3/13	10:55	12/10/13	11:54	Marcia Connolly/Pace	12/10/13	11:54	0.8°C	Sealed Cooler (Y/N)	Custody (Y/N)	Samples Intact (Y/N)
12																	

Section D Required Client Information: Sample ID: 5091001 (A-Z, 0-9 / -) Sample IDs must be unique

Section E Requested Analysis Filtered (Y/N): VOCs Metals (Pb) Residual Chlorine (Y/N)

Section F Preservatives: HCl HNO₃ H₂SO₄ Unpreserved # OF CONTAINERS: 3

Section G Relinquished By / Affiliation: Marcia Connolly/Pace Date: 12/10/13 Time: 11:54

Section H Accepted By / Affiliation: Marcia Connolly/Pace Date: 12/10/13 Time: 11:54

Section I Sample Conditions: Temp in °C: 0.8°C

Section J Additional Comments: Level IV OAR/C

Section K Sampler Name and Signature: PRINT Name of SAMPLER: Nathan Ferrer SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YYYY): 12/9/13

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information: Company: **Report To:** **Section B** Required Project Information: **Company Name:** **Section C** Invoice Information: **Page:** **4** of **6**
Address: **1712239**
Phone: **101** **REGULATORY AGENCY**
Requested Due Date/TAT: **STATE:** **NPDES** **GROUND WATER** **DRINKING WATER**
Project Name: **Project Number:** **UST** **RCRA** **OTHER**
Matrix Codes: **Matrix Code:** **Site Location:** **Residual Chlorine (Y/N)** **5091001**
Matrix Codes: **Matrix Code:** **State:** **Analysis Test** **PAH** **Metals (Pb)**
Matrix Codes: **Matrix Code:** **State:** **Analysis Test** **VOCs**

ITEM #	Requested Client Information	Matrix Codes	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	44-GW-GP-10	DW	WT G	G	12/6/13 11:45		3	Unpreserved	✓	✓			010
2	44-GW-GP-10	WT	WT G	G	12/6/13 11:45		2	HCl	✓	✓			
3	44-GW-GP-10	WT	WT G	G	12/6/13 11:45		1	HNO3	✓	✓			
4								H2SO4	✓	✓			
5	44-GW-GP-11	WT	WT G	G	12/6/13 10:50		3	Unpreserved	✓	✓			
6	44-GW-GP-11	WT	WT G	G	12/6/13 10:50		2	HCl	✓	✓			
7	44-GW-GP-11	WT	WT G	G	12/6/13 10:50		1	HNO3	✓	✓			
8								H2SO4	✓	✓			
9	44-GW-GP-12	WT	WT G	G	12/6/13 10:15		3	Unpreserved	✓	✓			
10	44-GW-GP-12	WT	WT G	G	12/6/13 10:15		2	HCl	✓	✓			
11	44-GW-GP-12	WT	WT G	G	12/6/13 10:15		1	HNO3	✓	✓			
12								H2SO4	✓	✓			

ADDITIONAL COMMENTS: Level #1 Q1/QC
RELINQUISHED BY / AFFILIATION: Marcia Smooth Pace
DATE: 12/10/13
TIME: 11:54
ACCEPTED BY / AFFILIATION:
DATE: 12/13/13
TIME: 08:00
TEMP IN °C: 0.7°C
SAMPLE CONDITIONS:
Received on:
Temp In °C:
Sealed Cooler:
Custody:
Residual Chlorine (Y/N):
Temp In °C:
Samples Intact (Y/N):

ORIGINAL

Signature: Nathan Ferrier
 DATE SIGNED: 12/13/13

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 5 of 6
1712240

Section A
 Required Client Information:
 Company: _____
 Address: Same as
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B
 Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: _____
 Project Number: _____

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location _____
 STATE: _____

ITEM #	Section D Required Client Information	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other	Preservatives	Y/N	Requested Analysis Filtered (Y/N)												Pace Project No./ Lab I.D.				
			COMPOSITE START	COMPOSITE END/GRAB							DATE	TIME	Analysis Test	VOCs	PAH	Metals (Pb)	Residual Chlorine (Y/N)										
1	HH-GW-GP-13	WT G	12/5/13	9:40	G	11:54	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	013
2	HH-GW-GP-13	WT G	12/5/13	9:40	G	11:54	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	014
3	HH-GW-GP-13	WT G	12/5/13	9:40	G	11:54	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	015
4																											
5	HH-GW-GP-SBD	WT G	12/5/13	9:40	G	11:54	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	016
6	HH-GW-GP-SBD	WT G	12/5/13	9:40	G	11:54	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	017
7	HH-GW-GP-SBD	WT G	12/5/13	9:40	G	11:54	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	018
8																											
9	HH-GW-GP-0 FEB	WT G	12/5/13	8:00	G	11:54	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	5091001	019
10																											
11	HH-GW-GP-TB	WT G			G		3																				
12																											

ADDITIONAL COMMENTS
 Level 11 QA/QC *[Signature]* 12/10/13 11:54 Marcia Bennett/Pace 12/10/13 11:54 0.8°C 0.7% Y

RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY / AFFILIATION DATE TIME SAMPLE CONDITIONS

Temp in °C Received on Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *Nathan Kone* DATE Signed (MM/DD/YYYY): 12/5/13
 SIGNATURE of SAMPLER: *[Signature]*

ORIGINAL

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:
 Company: same
 Address: as / of /
 Email To: _____
 Phone: _____ Fax: _____
 Requested Due Date/TAT: _____

Section B Required Project Information:
 Report To: _____
 Copy To: _____
 Purchase Order No.: _____
 Project Name: _____
 Project Number: _____

Section C Invoices Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Quote Reference: _____
 Pace Project Manager: _____
 Pace Profile #: _____

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location _____
 STATE: _____

Page: 6 of 6
 1754676

ITEM #	Section D Required Client Information	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↓	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB						
1	HH-GW-GP-10 MS	WT G	G	12/6/13 11:45	12/6/13 11:45	3	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)		5091001	
2	HH-GW-GP-10 MS	WT G	G	12/6/13 11:45	12/6/13 11:45	2	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)		(010)	
3	HH-GW-GP-10 MS	WT G	G	12/6/13 11:45	12/6/13 11:45	1	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)		(010)	
4											
5	HH-GW-GP-10 MSP	WT G	G	12/6/13 11:45	12/6/13 11:45	3	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)			
6	HH-GW-GP-10 MSO	WT G	G	12/6/13 11:45	12/6/13 11:45	2	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)			
7	HH-GW-GP-10 MSD	WT G	G	12/6/13 11:45	12/6/13 11:45	1	Unpreserved HCl HNO ₃ H ₂ SO ₄	✓ VOCs ✓ PAH Metals (P)			
8											
9											
10											
11											
12											

ADDITIONAL COMMENTS
 Level 11 04/04 2013

RELINQUISHED BY / AFFILIATION: _____ DATE: _____ TIME: _____
 ACCEPTED BY / AFFILIATION: Maria Bennett Pace DATE: 12/10/13 TIME: 11:54
 SAMPLE CONDITIONS: 0.8°C

Temp In °C _____
 Received on _____
 Ice (Y/N) _____
 Sealed Cooler (Y/N) _____
 Custody (Y/N) _____
 Samples Intact (Y/N) _____

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Nathan Ferris
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 12/9/13

ORIGINAL

Sample Condition Upon Receipt



Client Name: Specialty Earth Science Project # 5091001

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Date/Time 5035A kits placed in freezer

Packing Material: Bubble Wrap Bubble Bags None Other foam, box

Thermometer Used 1 2 3 4 6 A B C D E Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 0.7°C, 0.8°C Ice Visible In Sample Containers: yes no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: MS 12/10/13

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	5.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	6.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. (Circle) <u>HNO3</u> H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Project Manager Review		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.

Client Notification/ Resolution:

Person Contacted: Jaren Suwanto Date/Time: 12/12/13 Field Data Required? Y / N

Comments/ Resolution: _____

level 4. MH-GW-6P-SBD analyzer for VOA only. VOA manual.

Project Manager Review: K. Jones

Date: 12-10-13

Sample Container Count



CLIENT: Specialty Earth Science

COC PAGE of 1, 2, 3, 4 of 6
 COC ID# 1712237, 1712238, 1754920, 1712239

Project # 5091001

Sample Line Item	DG9H	AG1U	WG1U	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	pH <2	pH >12	Comments
1	3									1					✓		GP-1 MS 12/10/13
2	3									1					✓		GP-2
3	3									1					✓		GP-3
4	3									1					✓		GP-4
5	3									1					✓		GP-5
6	3									1					✓		GP-6
7	3									1					✓		GP-7
8	3									1					✓		GP-8
9	3									1					✓		GP-9
10	9									3					✓		GP-10
11	3									1					✓		GP-11
12	3									1					✓		GP-12

Container Codes	DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial
DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial	
AG1U	1 liter	unpreserved	amber glass	AG1H	1 liter	HCL	amber glass	BP1S	1 liter	H2SO4	plastic	DG9S	40mL	H2SO4	amber vial
WGFU	4oz	clear soil jar	AG1S	1 liter	H2SO4	amber glass	BP1U	1 liter	unpreserved	plastic	DG9T	40mL	Na Thio	amber vial	
R	terra	core kit	AG1T	1 liter	Na Thiosulfate	amber glass	BP1Z	1 liter	NaOH, Zn, Ac		DG9U	40mL	unpreserved	amber vial	
BP2N	500mL	HNO3	plastic	AG2N	500mL	HNO3	amber glass	BP2A	500mL	NaOH, Asc	Acid plastic	I	Wipe/Swab		
BP2U	500mL	unpreserved	plastic	AG2S	500mL	H2SO4	amber glass	BP2O	500mL	NaOH	plastic	JGFU	4oz	unpreserved	amber wide
BP2S	500mL	H2SO4	plastic	AG2U	500mL	unpreserved	amber glass	BP2Z	500mL	NaOH, Zn	Ac	U	Summa	Can	
BP3N	250mL	HNO3	plastic	AG3U	250mL	unpreserved	amber glass	AF	Air	Filter		VG9H	40mL	HCL	clear vial
BP3U	250mL	unpreserved	plastic	BG1H	1 liter	HCL	clear glass	BP3C	250mL	NaOH	plastic	VG9T	40mL	Na Thio.	clear vial
BP3S	250mL	H2SO4	plastic	BG1S	1 liter	H2SO4	clear glass	BP3Z	250mL	NaOH, Zn	Ac plastic	VG9U	40mL	unpreserved	clear vial
AG3S	250mL	H2SO4	glass	BG1T	1 liter	Na Thiosulfate	clear glass	C	Air	Cassettes		VSG	Headspace	septa vial & HCL	
AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter	unpreserved	glass	DG9B	40mL	Na Bisulfate	amber vial	WGFU	4oz	wide jar	w/hexane wipe
BP1U	1 liter	unpreserved	plastic	BP1A	1 liter	NaOH, Asc	Acid plastic	DG9M	40mL	MeOH	clear vial	ZPLC	Ziploc	Bag	

Sample Container Count



CLIENT: Specialty Earth Sciences

COC PAGE 5,6 of 5,6
 COC ID# 1712240, 1754676
 Project # 5091001

Sample Line Item	DG9H	AG1U	WG9U	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	pH <2	pH >12	Comments
1	3			2											✓		GP-13
2	3			2											✓		SBD
3	3																FEB
4	3																TB
5	—																GP-10 MS
6	—	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	GP-10 MSD
7																	
8																	
9																	
10																	
11																	
12																	

Container Codes	DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial
DG9H	40mL HCL	amber vial	AG0U	100mL	unpreserved	amber glass	BP1N	1 liter	HNO3	plastic	DG9P	40mL	TSP	amber vial	
AG1U	1 liter	unpreserved	amber glass	AG1H	1 liter	HCL	amber glass	BP1S	1 liter	H2SO4	plastic	DG9S	40mL	H2SO4	amber vial
WG9U	4oz	clear	soil jar	AG1S	1 liter	H2SO4	amber glass	BP1U	1 liter	unpreserved	plastic	DG9T	40mL	Na Thio	amber vial
R	terra	core	kit	AG1T	1 liter	Na Thiosulfate	amber glass	BP1Z	1 liter	NaOH, Zn, Ac		DG9U	40mL	unpreserved	amber vial
BP2N	500mL	HNO3	plastic	AG2N	500mL	HNO3	amber glass	BP2A	500mL	NaOH, Asc Acid	plastic			Wipe/Swab	
BP2U	500mL	unpreserved	plastic	AG2S	500mL	H2SO4	amber glass	BP2O	500mL	NaOH	plastic	JGFU	4oz	unpreserved	amber wide
BP2S	500mL	H2SO4	plastic	AG2U	500mL	unpreserved	amber glass	BP2Z	500mL	NaOH, Zn Ac		U	Surmma	Can	
BP3N	250mL	HNO3	plastic	AG3U	250mL	unpreserved	amber glass	AF	Air	Filter		VG9H	40mL	HCL	clear vial
BP3U	250mL	unpreserved	plastic	BG1H	1 liter	HCL	clear glass	BP3C	250mL	NaOH	plastic	VG9T	40mL	Na Thio.	clear vial
BP3S	250mL	H2SO4	plastic	BG1S	1 liter	H2SO4	clear glass	BP3Z	250mL	NaOH, Zn Ac	plastic	VG9U	40mL	unpreserved	clear vial
AG3S	250mL	H2SO4	glass	BG1T	1 liter	Na Thiosulfate	clear glass	C	Air	Cassettes		VSG	Headspace	septa vial & HCL	
AG1S	1 liter	H2SO4	amber glass	BG1U	1 liter	unpreserved	glass	DG9B	40mL	Na Bisulfate	amber vial	WGFY	4oz	wide jar	w/hexane wipe
BP1U	1 liter	unpreserved	plastic	BP1A	1 liter	NaOH, Asc Acid	plastic	DG9M	40mL	MeOH	clear vial	ZPLC	Zploc	Bag	

APPENDIX D

**DATA QUALITY REVIEW
PARCCS SPREADSHEETS**

PARCCS Data Analysis (Soil: VOC 8260) Fmr Hitch and Haul

Data Quality Parameter:

Field		
Parameter	Goal	Result

Lab		
Parameter	Goal	Result

Precision

RPD (sample vs sample dup)	50	ND all analytes
Min 1 duplicate:20 samples	Y	Y

RPD (MS vs MSD) Lab Sample	</= 20	> 20 for 100% reported analytes (73/73) ⁽¹⁾
RPD (MS vs MSD) Field Sample	</= 20	< 20 for 32.9% reported analytes (24/73) ⁽¹⁾

Accuracy

Trip Blank	ND	ND
------------	----	----

Surrogate % Recovery	>/=75%	100%
LCS % Recovery	100%	98.6% ⁽²⁾
MS vs MSD % Recovery	>/=75%	99.3% ⁽³⁾

Representativeness

Adherence to QAPP sampling protocols: -SAP sample locations followed?	Y	Y
-homogenized sample?	Terra Core soil sampling is a grab technique	
-followed sampling and handling protocols?	Y	Y

Cannot be evaluated: Lab representativeness increased by adherence to method standards

Completeness

Samples locations taken compared to SAP	90%	100%
---	-----	------

% Valid data ⁽⁴⁾	90%	95.8%
-----------------------------	-----	-------

Comparability

Adherence to QAPP/SAP protocols:		
PID/ORP/pH meter calibrated?	Y	Y
Sampling equipment properly decontaminated between sampling locations?	Y	Y

Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N	Y	Y ⁽⁵⁾
--	---	------------------

Sensitivity

PID/ORP/pH meter calibrated? ⁽⁶⁾	Y	Y
---	---	---

Do Reporting Limits meet screening levels? Y/N	Y	Y ⁽⁷⁾
--	---	------------------

(1) Terra Core soil sampling method commonly results in high RPD (MS vs MSD) due to related sample grab vs homogenization protocol.

(2) LCS % recovery not met for Methylene Chloride in LCS #1026792, LCS% recovery not met for Carbon Disulfide in LCS #1028005, LCS% recovery not met for trans-1,3-Dichloropropene in LCS #1028781: However, all associated samples have concentrations of these analytes below Reporting Limits. Therefore, high bias doesn't significantly affect accuracy of data.

(3) MS vs MSD % Recovery exceeds laboratory limit for Vinyl Acetate in field MS/MSD sample. Vinyl Acetate concentration was below detection limits in all associated samples. Therefore, accuracy of data is not significantly affected.

(4) Lab Validity = #useable measurements/#planned measurementsx100 (1748/1825)

(5) Total Xylene RL exceed Pace RL stated in QAPP Table 3A. However, associated screening levels are 6 orders of magnitude greater than stated laboratory RL. Therefore laboratory RL exceedence for Total Xylenes does not significantly affect quality of data.

(6) PID is relative to background/ambient air and 100 ppmV isobutylene standard

(7) 1,2 -Dibromoethane (EDB) RL meets all relevant IDEM screening levels except for 2009 IDEM RISK Residential Limits and 2012 RCG Res Soil MTG due to analytical method 8260. See attached IDEM guidance document regarding EDB and VOC method 8260 approval

PARCCS Data Analysis (Soil: PAH 8270) Fmr NA Hitch and Haul

Data Quality Parameter:

Field		
Parameter	Goal	Result

Lab		
Parameter	Goal	Result

Precision

RPD (sample vs sample dup)	</=50	ND all analytes
Min 1 duplicate:20 samples	Y	Y

RPD (MS vs MSD) Lab Sample	</= 20	< 20 for 100% reported analytes (18/18) ⁽¹⁾
RPD (MS vs MSD) Field Sample	</= 20	> 20 for 44.4% reported analytes (10/18) ⁽¹⁾

Accuracy

Trip Blank	ND	NA ⁽²⁾
------------	----	-------------------

Surrogate % Recovery	>/=75%	100%
LCS % Recovery	100%	100%
MS vs MSD % Recovery	>/=75%	100%

Representativeness

Adherence to QAPP sampling protocols: -SAP sample locations followed?	Y	Y
-homogenized sample? -followed sampling and handling protocols?	Terra Core soil sampling is a grab technique Y	Y

Cannot be evaluated: Lab representativeness increased by adherence to method standards

Completeness

Samples locations taken compared to SAP	90%	100%
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% Valid data ⁽³⁾	90%	98.4%
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Comparability

Adherence to QAPP/SAP protocols:		
PID/ORP/pH meter calibrated?	Y	Y
Sampling equipment properly decontaminated between sampling locations?	Y	Y

Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N	Y	N ⁽⁴⁾
--	---	------------------

Sensitivity

PID/ORP/pH meter calibrated? ⁽⁵⁾	Y	Y
---	---	---

Do Reporting Limits meet screening levels? Y/N	Y	Y
--	---	---

(1) Terra Core soil sampling method commonly results in high RPD (MS vs MSD) due to related sample grab vs homogenization protocol.

(2) Trip Blank was not analyze by Method 8270 for PAH's

(3) Lab Validity = #useable measurments/#planned measurementsx100 (496/504)

(4) RL's for all PAH analytes exceed Pace RL stated in QAPP Table 3A. However, associated screening levels are 6 orders of magnitude greater than stated laboratory RL. Therefore, laboratory RL exceedences do not significantly affect quality of data.

(5) PID is relative to background/ambient air and 100 ppmV isobutylene standard

PARCCS Data Analysis (Soil: Lead 6010) Fmr NA Hitch and Haul

Data Quality Parameter:

Field		
Parameter	Goal	Result

Precision

RPD (sample vs sample dup) Min 1 duplicate:20 samples	</=50 Y	Y Y
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Accuracy

Trip Blank	ND	NA (2)
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Representativeness

Adherence to QAPP sampling protocols: -SAP sample locations followed?	Y	Y
-homogenized sample? -followed sampling and handling protocols?	Terra Core soil sampling is a grab technique Y	Y Y

Completeness

Samples locations taken compared to SAP	90%	100%
---	-----	------

Comparability

Adherence to QAPP/SAP protocols:		
PID/ORP/pH meter calibrated?	Y	Y
Sampling equipment properly decontaminated between sampling locations?	Y	Y

Sensitivity

PID/ORP/pH meter calibrated?	Y	Y
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Lab		
Parameter	Goal	Result

RPD (MS vs MSD) Field Sample	</= 20	< 20 for Lead
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Surrogate % Recovery	>/=75%	NA (3)
LCS % Recovery	100%	100%
MS vs MSD % Recovery	>/=75%	100%

Cannot be evaluated: Lab representativeness increased by adherence to method standards

% Valid data (4)	90%	100.0%
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Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N	Y	Y
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Do Reporting Limits meet screening levels? Y/N	Y	Y
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(1) Field Sample vs DUP RPD = 0.9%

(2) Trip Blank was not analyzed by Method 6010 for lead

(3) Surrogates are not used for Method 6010

(4) Lab Validity = #useable measurements/#planned measurements x 100

PARCCS Data Analysis (GW: VOC 8260) Fmr Hitch and Haul

Data Quality Parameter:	Field			Lab		
	Parameter	Goal	Result	Parameter	Goal	Result
Precision						
	RPD (sample vs sample dup)	</=35	ND for all analytes	RPD (MS vs MSD) Field Sample	</= 20	</=20 for 82.9 % reported analytes (58/70) ⁽¹⁾
	Min 1 duplicate:20 samples	Y	Y	RPD (MS vs MSD) Lab Sample	</= 20	</=20 100 % reported analytes (70/70) ⁽¹⁾
Accuracy						
	Equipment Blank	ND	ND	Surrogate % Recovery	>/=75%	100%
	Trip Blank	ND	ND	LCS % Recovery	100%	97.9% ⁽²⁾
				MS vs MSD % Recovery	>/=75%	99.3% ⁽³⁾
Representativeness						
	Adherence to QAPP sampling protocols: -SAP sample locations followed?	Y	Y	Cannot be evaluated: Lab representativeness increased by adherence to method standards		
	-homogenized sample? Y/N	Y	Y			
	-followed sampling and handling protocols?	Y	Y			
Completeness						
	Samples locations taken compared to SAP	90%	100%	% Valid data ⁽⁴⁾	90%	99.8%
Comparability						
	Adherence to QAPP/SAP protocols:			Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N	Y	Y
	PID/ORP/pH meter calibrated?	Y	Y			
	Sampling equipment properly decontaminated between sampling locations?	Y	Y			
Sensitivity						
	PID/ORP/pH calibrated? ⁽⁵⁾	Y	Y	Do Reporting Limits meet screening levels? Y/N	Y	99.8% ⁽⁶⁾

(1) Duplicate groundwater sampling method commonly results in high RPD (MS vs MSD).
 (2) Analyte recovery of 1,1-Dichloroethane outside QAQC limits and recovery of Iodomethane and Methylene Chloride exceed LCS limit in LCS #103040. All analyte recoveries for LCS #1028934 and LCS #1029708 were within QAQC limits. Quality of related data is not significantly affected.
 (3) MS and MSD % Recovery outside lab limits for Iodomethane For MS/MSD field sample. However, analyte was not present above detection limit in any associated samples. Therefore, high bias does not significantly affect the quality of data.
 (4) Lab Validity = #useable measurements/#planned measurements x 100 (1748/1752)
 (5) PID is relative to background/ambient air and 100 ppmV isobutylene standard
 (6) 1,2-Dibromoethane (EDB) RL does not meet IDEM default Industrial or Residential GW screening levels due to analytical method 8260. See attached IDEM guidance document regarding EDB and VOC method 8260 approval RL for Acrolein and 1,1,2,2-Tetrachloroethane does not meet 2009 RISK Residential Limits.

PARCCS Data Analysis (GW: PAH 8270) Fmr NA Hitch and Haul

Data Quality Parameter:

Field		
Parameter	Goal	Result
Precision		
RPD (sample vs sample dup)	</=35	NA (1)
Min 1 duplicate:20 samples	Y	Y
Accuracy		
Trip Blank	ND	NA (2)
Equipment Blank	ND	NA (2)
Representativeness		
Adherence to QAPP sampling protocols:		
-SAP sample locations followed?	Y	Y
-followed sampling and handling protocols?	Y	Y
Completeness		
Samples locations taken compared to SAP	90%	100%
Comparability		
Adherence to QAPP/SAP protocols:		
PID/ORP/pH meter calibrated?	Y	Y
Sampling equipment properly decontaminated between sampling locations?	Y	Y
Sensitivity		
PID/ORP/pH meter calibrated? (4)	Y	Y

Lab		
Parameter	Goal	Result
Precision		
RPD (MS vs MSD) Lab Sample	</= 20	< 20 for 100% reported analytes
RPD (MS vs MSD) Field Sample	</= 20	< 20 for 100% reported analytes
Accuracy		
Surrogate % Recovery	>/=75%	100%
LCS % Recovery	100%	100%
MS vs MSD % Recovery	>/=75%	100%
Representativeness		
Cannot be evaluated: Lab representativeness increased by adherence to method standards		
Completeness		
% Valid data (3)	90%	100.0%
Comparability		
Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N	Y	Y
Sensitivity		
Do Reporting Limits meet screening levels? Y/N	Y	Y (5)

(1) Duplicate soil sample was analyzed for VOC 8260 only.

(2) Field Blank and Equipment Blank were not analyzed by Method 8270 for PAH's

(3) Lab Validity = #useable measurments/#planned measurements x 100

(4) PID is relative to background/ambient air and 100 ppmV isobutylene standard

(5) Laboratory RL for Dibenz[a,h]anthracene does not meet IDEM 2012 RCG Res Tap Limits. RL's meet all other relevant screening levels for this and remaining PAH analytes reported.

PARCCS Data Analysis (GW: Lead 6010) Fmr Hitch and Haul

Data Quality Parameter:

Field		
Parameter	Goal	Result
Precision		
RPD (sample vs sample dup)	</=35	NA (1)
Min 1 duplicate:20 samples	Y	Y
Accuracy		
Equipment Blank	ND	NA (1)
Trip Blank	ND	NA (1)
Representativeness		
Adherence to QAPP sampling protocols:		
-SAP sample locations followed?	Y	Y
-homogenized sample? Y/N	Y	Y
-followed sampling and handling protocols?	Y	Y
Completeness		
Samples locations taken compared to SAP	90%	100%
Comparability		
Adherence to QAPP/SAP protocols:		
PID/ORP/pH meter calibrated?	Y	Y
Sampling equipment properly decontaminated between sampling locations?	Y	Y
Sensitivity		
PID/ORP/pH calibrated?	Y	Y

Lab		
Parameter	Goal	Result
Precision		
RPD (MS vs MSD) Field Sample	</= 20	</=20
RPD (MS vs MSD) Lab Sample	</= 20	</=20
Accuracy		
LCS % Recovery	100%	100%
MS vs MSD % Recovery	>/=75%	100%
Representativeness		
Cannot be evaluated: Lab representativeness increased by adherence to method standards		
Completeness		
% Valid data (2)	90%	100%
Comparability		
Reporting Limits met for analytical methods quality control testing per QAPP Table 3A? Y/N		
	Y	Y
Sensitivity		
Do Reporting Limits meet screening levels? Y/N		
	Y	Y

(1) Field Duplicate, Field Blank and Equipment Blank were not analyzed by Method 6010 for lead

(2) Lab Validity = #useable measurements/#planned measurements x 100



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

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Governor

Thomas W. Easterly
Commissioner

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January 16, 2013

Dear Interested Parties:

Re: Leaking UST Remediation Program
Guide (RPG) Potential Petroleum
Contaminants (PPC) Table 3.1
Clarifications

Clarification Regarding the Remediation Program Guide Potential Petroleum Contaminants, Section 3, Table 3.1

Naphthalenes Analytical Method Issue for soil and ground water for gasoline releases:

Section 3 (Table 3.1) of the Remediation Program Guide (RPG) includes Naphthalenes (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) as Potential Petroleum Contaminants (PPCs) when gasoline range products are being investigated during initial site characterization. If a gasoline range product release is suspected or confirmed and sampling is required, IDEM recommends Naphthalenes be analyzed and reported along with other volatile organic compounds (VOCs) via U.S. EPA Method 8260. These procedures should be followed during site characterization, unless otherwise directed by IDEM. Once site characterization is completed, specific contaminant reporting should be identified in the Corrective Action Plan based on site-specific remediation objectives.

VOC reporting for Gasoline Range Product, Diesel Range Product, Waste Oil and Unknown Petroleum releases:

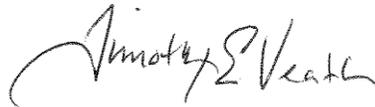
The laboratory should report all VOCs (to the extent practicable) consistent with current practices, including 1 and 2-methylnaphthalene.

January 16, 2013

PPCs reported by the laboratory above the RCG Screening Level:

In some cases, the RCG screening levels may be lower than the laboratory reporting limits. If lower reporting limits are necessary, IDEM may request the use of "non-routine" EPA Methods. In addition, Section 3 (Table 3.1) of the Remediation Program Guide states that lead scavengers should be reported during site characterization utilizing U.S. EPA Method 8260. IDEM consistently sees ethylene dibromide (EDB) being reported at or below the RCG Ground Water Screening Level of 0.05 µg/l. It is not necessary to sample and analyze for EDB utilizing U.S. EPA Method 8011 unless otherwise directed by IDEM.

Sincerely,



Timothy E. Veatch, Chief
Leaking Underground Storage Tank Section
Underground Storage Tank Branch
Office of Land Quality



William D. Davis, LPG#857
Chief, ELTF Technical Section
Underground Storage Tank Branch
Office of Land Quality